

<210> 5244  
<211> 244  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560636H1

<400> 5244

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aatatttact tttccctctg ccnnnnnnnn nnnnnnnnnn nnnnnnnna cattttgtga 120  
gggtatcact actccttgtt aattggccat cctatgcgac taaatcttag taaataata 180  
aggagtttaa tagacatgta ctgtaagttt aattttttt acaaataattc agaaatctt 240  
attg 244

<210> 5245  
<211> 258  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560637H1

<400> 5245

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cgaggtaac caattgctca tagttgacga tgacttaacg gaaatggaa agaaagccgc 180  
ttggagcgtg agttcctgca aaccggtaa cggcgttcc tctctccgtg acgacaatct 240  
cgaaacttat tggcaatc 258

<210> 5246  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560639H1

<400> 5246

ggaactttga tgtcaaggc agtgatttca acaactcatc aaagcctttt gatgatgatt 60  
tcaatgatgg ctggaagatc accaattcca atggacccct tttctctatg cctcacaaca 120  
ataaacacncc acactcttga agttggaggc ttcaacaagg gaggaatcta ttccaacacc 180

aacaccactn ctccttata tcctaaccctt aacaacaaca ctctggagg cttcaacaag 240  
ggaatctatt ccaacacnan nccctcancc tatctt 276

<210> 5247  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560641H1

<400> 5247

aagctttca catggaaatc ggctcccccg cattcttac cctcgaagac tattcttcct 60  
tcttcttccc tganatggat cccattccca attccaatgt caacaagcgt cgtcaaaca 120  
acgaccagtt cgacttaaat gactccgcat tcagccacct cctcaattcc atcatggatc 180  
ctaaccattt ccaacaccaa tccaaaccaa tccaaattcga ctcctccccg accaagagag 240  
tcgcgcgtgac ctcctcggttc tcgaagacag ccacctaacc cccgcctcg 297

<210> 5248  
<211> 107  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560643H1

<400> 5248

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gtttctgttt tcggacttca atggaaatta atggatgaga actaatg 107

<210> 5249  
<211> 238  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560644H1

<400> 5249

cgagaacaga aatctcggt ggaacaaaag ggtaaaagt cgttttagct catttttaggg 60  
acacctcggt tatcttttnn ncgtatgtgcc ggcccagtna aactccncat ctgnccaatg 120  
tcttccgccc ggatcgaccg gnngnagccg accttgggtc naaaaaagang ggcagtgccc 180

gacttccgat tcacggaata agtaaaataa cgttanaagt agtggtattt cactttcg 238

<210> 5250  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560645H1

<400> 5250

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gatcaacaag gctggaaag cagtgtatgt gaaatttcac tggaagacca ctatggat 120  
aaagtgtcta ttggaggaag aggccattaa ggtgggagga gccaaccaca gccatgccac 180  
tcaagacctc ccatgattcc attgctgctg gtaactatcc tgagtggaaa ctgtttgttc 240  
agacaataga tcctgagcac gaagacaaat ttgactttga ccctcttgat gttactaa 298

<210> 5251  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560646H1

<400> 5251

aagctagctc agggctggga ttaagctatg ggtttaact ggtgatnaaa tggagacagc 60  
aattaatatt ggatttgctt gtagttact cagacaagga atgaaacaaa ttataattag 120  
ctcagatact ccagaaacta aatcattgga gaaaatggag gacaagtctg ctgctgaagc 180  
ggcaatthaag tcaagtgttc ttctgtcaact aaggagtc aaggcattgc tttctacagc 240  
agatgaaaac tatgaggcct tagccctgat cattgatggg aagtctctta cttatgcact 300

<210> 5252  
<211> 158  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560647H1

<400> 5252

ccagaattag gtgttaagtn cagcaattca cggcccacca ctttagcattt gaaggttcga 60

ctaattgacc ttcagaaaatc gtggccgtaa atatcttga ttatttttt tcattttgtta 120  
cattgtaatt tgatcatata cgattgttat gaagtttg 158

<210> 5253  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560649H1

<400> 5253

aaagtttctt cctttctctg ctcttgtct tctctgacac atttggggcc ttgttgagt 60  
tgttttgca agagggtatg gcgaaggacg ttgaggttgc tgagcgtggc tccttctctg 120  
ggaaggacta ccaggaccct ccaccagcac cactcattga tgctgaggag ctcacaaagt 180  
ggtcctttta cagggctctt attgctgagt tcattgccac tttgctcttc ctctacatta 240  
ctgtgctcac agttataggg tacaagcacc agacggatca tgctgnt 287

<210> 5254  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560650H1

<400> 5254

ctgagcaatg cctgtcacaa acacaacaac accaactgtg gcagaacaca tcaaattggag 60  
aagacccaga aaccaatttc aaccaccatc agcaccatc ttcagaaacc gatccaaacc 120  
ctcaaattccc ttccattatc caatccacta ggtgcaagtc taccatttcc tccttgcctcc 180  
tctccacttt ctccaacaac acctcctcca acaatgacac tcccaccacc ttcaatgcca 240  
ctgccccatag caagaaaaaaaaa agcaactttt ctgcatcaac cttagaggg ttggggtg 298

<210> 5255  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560652H1

<400> 5255

cccaactcaa ttttctctc aaccggccca attagcata agcccagcat ggccacccgca 60  
acagcagcag ncacctcgtc cttcatgggg acgcgcctcc tggaggccca ctccggggcg 120  
gggcgggtgc aggccccgtt cgggttggc aagaagaaan ccgcgcgcgc gaagaaagtt 180  
tccaggggggt cgggctctag ctccgatagg cnccgttgtt atccgggcgc caaggcgcng 240  
agtacctgga tnggagcctt gtcggagact acggnttcga tcatttnggc tag 293

<210> 5256  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560653H1

<400> 5256

aaaagagcac tgaccaaacc attttatttt attttgaat caagggtgag ggccttccat 60  
ggcttccgct tgtgcttcct ctgcaattac agctgttgcc atctctacgc cgagttccgg 120  
gcagaagaat ggatcaggag gttgtttct tagtggaaagg aaattgaggg tgaaaaagga 180  
gagagcagca attggaggac gatcgatggg cactacagtg tgcgcaagttt ctgagcctga 240  
cagacctcta tggttcccaag gcagcaccccc tcctccatgg cttgatggca tc 292

<210> 5257  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560654H1

<400> 5257

cctcaagggt ccctaacggc aagattttct tctggaagtt ttcaaaatcg ttgccgcgga 60  
aaaagagatt gatgagaaac aacagacaga caaggacaga tggaaaggta ttgccttatga 120  
tgtttcagac gaccagcaag acatcacaag agggaaagggt ttggttgatt ccctttcca 180  
agctccacag gatactggaa ctcactatgc aatcatgagc tcttatgagt accttagca 240  
ggacttaaac agtacaactt ggataacaac atggacgggtt tttacattgc tcctg 295

<210> 5258  
<211> 276

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560655H1

<400> 5258

gctatttcca cccaaaacaa gtggantgtt ggnngtgc acttngcctt gaatgagang 60  
ctcctcatac ttgctgcaaa acaagacnat nataatcatc ntcacaggct tcaaagttcc 120  
actcagagga aggcttcagc ttcttattcac aagatcttg ctttggntc tcttttcaact 180  
cgccaccaat tganatcgca caactattat gatcaagatg atgcctctcc cagcccagaa 240  
ggaaagacct tatnnttactc attaatgcct gctttt 276

<210> 5259  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560656H1

<400> 5259

cattttnccc cattttgtga aattcaattc caagggttcc cattttccat ttcaatgtct 60  
tcccattcgc acaaaggcac ctccctctac ggcatgcgg ccccttatcg atccagagan 120  
gggcttagca ctgcancgt ngcatcctcc gatgaaatcc aatncacat cgatccggc 180  
atcgacttcn acgacgaaat caccgtctt cgtggccaag ttaaaaaatt gnnaaatgtt 240  
gctgaagaga tagttcaga agtcaagttt caaagagatt ttctggaaca agtgc当地 297

<210> 5260  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560657H1

<400> 5260

acccagctca tttaaggtgc tcnacagcat catctgcattc natancntcn tccttaattt 60  
tggagacncc aacattcatg gantccccn ttggtnncn naagacntg tttgccaaa 120  
caaacacaca tggnagatga gcnttgggt atcggggcta tcacaattgt ggacttagtag 180  
tcagaggcaa cactagctat ggaatactgt ccggagcnga aaaatataat gatggatcg 240

caaccatcatggagttattgt tgatcagatgtgggagtgtg caacgatg

288

<210> 5261  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560658H1

<400> 5261

ttttcatttc agaataggna ccnatggctc ntttgctgac aacaagtccct aacaatggtg 60  
caacaggttc tctccggcag agcccggnaa gaggnccctc tattcggttga aaaatgttta 120  
tttccaactt caagagtgtg ctgcgttggt caccaatatc ancaatctca cccctttcc 180  
ctctctgatc ttgatcaagt ccctcctccc ggtggcaatc actctntgct tcgcaggaca 240  
ttgatggggt tgagtggtgc ggcaacgttg gggntgagtt gagtgatgag caa 293

<210> 5262  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560660H1

<400> 5262

aaattacaac accaatctca cccatttcaa aaaaaggccc tttagtggttac tattcgtaaa 60  
atggggccaat cttgttctta ccaatttctt tctcaaaaact cttgctccta atttcagtct 120  
tcagctttcc tttgctgcta ggagactcaa ccagctgggt caggaccagt cacagttact 180  
ccattaccac aacggtcctc ttctatacgg caaaatcgcc gtgaactaat ctggtatggt 240  
cattcaaacc atccccaaaag gccatcatca ccgatttcgt tacctcatgt catc 294

<210> 5263  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560661H1

<400> 5263

angataaaagc atctttcnngg catgatcata acttaaattt ctcnnntctcc aactgacaat 60

ggcccctgga agaattattt gataaagtgn aaagaatgtt agtatggna accaaaatga 120  
tgctatagac tgctaactgc naattatgaa gtggtaaaag agcgcntaat gcannnnncna 180  
aaggcacaga agaagctgta actttggaca tcatacgacc agttacatg gctgttggag 240  
acttaaaatt tgctggatcc tggtaaacat ggtatcccc nttccctct gt 292

<210> 5264  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560662H1

<400> 5264

gtccctgaat gcttttaga gagagaaaga gtcataataa agtgnagaa naanganaag 60  
gagagtagtg aaacaagaag aaaggagaag aagatggtgt ttgaggaaac tgagctgagg 120  
cttggactga gactaggact ccctggaaat ggagccgcgc caacaactga agctgctgcg 180  
gaattaggag tgaggaagag agggttctct gaaactgaaa ccgatgaaac aaccccggtt 240  
gatttcatgc ttaacctctc tcccaaggaa gcttctgctg ctgctacta 289

<210> 5265  
<211> 299  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560663H1

<400> 5265

gcaacatcat caacatcaca gagtagaga gtaagacgcc ggcaatgtcc gctgtgagag 60  
ttcaagtttc ggcgtgtgcg gttccgcca cctcaacca cttcgccctc cgccaaaacg 120  
ccgtcgtttc ctccaggaag aagaagcctc tcactctcag agtggctcata atgtcttccg 180  
ttccctcccttc ccaacccttc gaaatcgccg taaaagcttc cgtcaccaca cccAACAGGC 240  
tcggcgactg cccttttgc caaagggtgc tgctgacact ggagaaaaaa catctacct 299

<210> 5266  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560664H1

<400> 5266

gtgagtttgt tgatcgagat aactagaaac agtgtgatga aaatgnaggn ccatgtttc 60  
ttcgntgcta cnattttggn agcntngnaa tgncangcgn acganangnt ccctcnccgn 120  
atgnacannn ggnangggngg ccgnaattcg gaagtgaaat gcnncaangtg gaagnntgcn 180  
gtgggagcnc accacatctt ggctttagac natctgaaga tggttgaaca acaaggata 240  
catcatggcg aacaatatag atcagatcca aaacagttaa 280

<210> 5267

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560665H1

<400> 5267

cactactcct tagtttctct ctgcacatcatcatactt agatagtcag atacatcacc 60  
caataattaa attaaataca tgcttagcact ttaacagtac tccttcctct aatatctctc 120  
ctcatatccc ctttctgctg gatattcagc taattaaact aagtoactaa gatgactgag 180  
ggaaagctag ttgaagctgc agaagctcat aagacacttc aggatttcga tcctccaaag 240  
aagcgcaaaa ggaacaagta tgctttgct tgtgctatgc tggcctccat gacttcc 297

<210> 5268

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560666H1

<400> 5268

tagaatggct ttgaagcttg taaatctagg gtttcactca tcgattccgt gttctccgag 60  
gcccttgaaa gatcggttcg tgcttcggtc ttctaaagtg gagcaaataat cgtttacgga 120  
atctgagaac tcactcatcg aagcccttct tggcatccaa ggacgcggac gttcttcttc 180  
tcgtcagcag ctcaatgctg ttgagcgtgc tggcaagtc ctggagcgggt taggggggtgt 240  
acctgatccg acaaaatcaa acttgatcga gggtcgtgg cagctaattt tc 292

<210> 5269  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560667H1

<400> 5269

atctactctc ttttttcaa ccttagattc nttcntccaa caatggotct cgccgttcc 60  
actacttctt cctctncagc agctgctnca gttctagctc cttcttctct cgtctcgat 120  
cttcctccga cgcaaaaagct cctcaaatcg gttcgttcg gttccggag angtcgctt 180  
tttcgtctgt tgggtcaat gtaactcaac gacgctcctt ggtgaggcca ctcaacgccc 240  
aaccgcaacg gaacgattct attgttcctc ttgcagcaat atcgatcgatc ct 292

<210> 5270  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560668H1

<400> 5270

gaagaaaacca aaaagcaatc ctttttttag gagttgtgcc ctacattaca tctgaatttg 60  
attgataata aaagagtaaa tattcgccccg cgataatttt gattttattt aattttnttn 120  
ttatTTTgc caattctatt nattcttct aataataaaa aatattctaa taactaataaa 180  
taaaaaaggaa aataaaagatt cattaganta ttatannata acaaataata gaacaaaaca 240  
agattcttta gtttatatatg taaaananaa atggtttatt tatnaganta ca 292

<210> 5271  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560669H1

<400> 5271

ataagataca ngtggtaag attgannact gagaagtatc cnaaccattg ctgacaaata 60  
cagaattttag gcgttgccga ctttcatcat gtttaaggat ggagatcctt atgatcgctt 120

tgagggagca ttgactgcag atcagctcat tgaacgcatt gaagctggcc tcaaggtaa 180  
gcaataaccc tactataatg aagacacaga agcttgtcta ttggaatgtt cgatcacata 240  
catgatatga ttgactggaa tcacttgtt tt 272

<210> 5272  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560671H1  
<400> 5272

cgcgtccgtg cagcttggag gacctctaca aaggagtcaa gaagaagatg aagatttcca 60  
ggaacgtcta cgacgctttt ggcaaattgtg gggatgtgga ggagatntt actatcncag 120  
ataaaaacctg gctggaagaa aggaacaaaa attaccttcc cagagaaagg taaccgttag 180  
cctggtgtca tcccagcaga tctcattttt gtgatagatg agaagccgca tgctcttat 240  
agaagggatg gtaatgattt ggtgatcaac caagagataa cccttcttga gg 292

<210> 5273  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560672H1  
<400> 5273

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ccgagatgtg aaaaccaaca atattttct tgacagtgac ttttgttca aagtggcaga 120  
ttttggactc tcgcgtcttt tcccagacca tgtcacccat gttcaacag ctccacaagg 180  
gactccaggt tatgtggatc ccgagtagcca ccagtgcac cagcttacta aacaaagcga 240  
cgtatatagc tttggagtgg ttctgggttga gctgatatca tccttgccctg ct 292

<210> 5274  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560673H1

<400> 5274

ctccattttg catttagnaa atgacatgat gatcggggat agaaaccaga attggaaatt 60  
ggaagacctt ctgggtccaa agaatggcg gtgtgttaga aaatagacat gcacactgta 120  
aagttaaatc acatgacgtt actgatattc ctccagacac aagaaagcag agggagccag 180  
ggtctaagga taaagctgat cctgttaggaa agaaaaagggt ccataaaggc agcgtaaaat 240  
tcgaaaatgc accctggaaa ttttagttct ggagaaatct aggaacatga ctatgttac 298

<210> 5275  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560676H1

<400> 5275

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cttggatctc aacattaatc tccatagggt tcacgaagaa cttccaaaaa agcaggtgga 120  
aaacaatttt ttctcattgg atttggaggt gaagaaatct tctgtaaaac aagagtcagc 180  
agggtcatttgc gcccggaaac tgaaggcggtt gagtgccagaa aacaagaagt taaccgaaat 240  
gctcacagag atgtgtgaga actacaacac tttgcgaana atttgcgttgcgatgga atac 294

<210> 5276  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560677H1

<400> 5276

caanagggca ctgactaatt ttcacnatca actggnttca aagtggtttt ntcttcctct 60  
tcttcatgtt cattgattgg atcccatccc accccaattt tctaattgtt tgtctctcac 120  
tctccccacgt gcactttct ctnctccgtt ctaataatt ctccatnnnn nnnnnnnnnn 180  
nnnnnnnnnnn aatacaatat tatatgtgtg tgtggaaaaa agaaccgtnt ttctttcag 240  
cgnaagcgac cacctntata ttaccctttt gatcagagtt taaaatgggt ttgt 294

<210> 5277  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560679H1

<400> 5277

cttgatttga ggccaggcaa gccccactca acnaccacac ctctccctgt tcacgctacc 60  
cctttctgct cttttctac cttcaagttt taaaagtata aagatggcag agacattcct 120  
atttacctca gagtcggtga acgagggaca ccctgacaag ctctgcgacc aaatctccga 180  
tgctgtcctc gacgcttgcc tcgagcagga cccagacagc aaagttgcct gcgaaacatg 240  
caccaaaaacc aattggtcat ggtcttcgga gaaatcacga ccaaggccaa cgtt 294

<210> 5278  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560681H1

<400> 5278

atgggagtct tgcggagac tacgggttcg atccgtttgg gctagggaaag cccgcggagt 60  
acctgcagtt cgagctggac tcgctggacc agaaccttgc gaagaacgtg gctggggaca 120  
tcatttggAAC caggaccgag ctgcggacg tgaagtccac gccgtttcag ccctacagcg 180  
aggtgtttgg gctccagang ttccgtgagt gcgaactcat ccatggaaag tgggccatgc 240  
tcgcccatttc gnagctctca ctgttgagtg gctcatggtn ttacatgg 288

<210> 5279  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560682H1

<400> 5279

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tggcagagaa caacaaccac caccatttcg gaaccgcccatt caganggctc gcctctgtga 120  
ccaaccaccc acttcttct cacaacgcac cggcgaact cgccctgtgc cgcaacttccg 180

gtangagcgn nantttccac cgcgtnagg gccatgtngc cctccacna ngtcgtnntgg 240  
aggatcatcg cntccgncca cgacaactcc ggcaatgnct tnaccgacat 290

<210> 5280  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560683H1

<400> 5280

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tttttgttt tgaggagtac tggtcgttgc actaattttc aggttcactc ctctcgacaga 120  
gcaccccccgt gtgttgacac cagaatccat tggaaaacg aagatgaagg ttggatcgga 180  
ggtaccaata ccaaacacca acaaaccac aaacccaata acatgttaca ggctgatgac 240  
tttccagatc tcctctctgc ttcttaggt tctcattacg aattcttagg 290

<210> 5281  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560684H1

<400> 5281

ctttctctct cccttagtca aaggactcg ttgttcttct cccaggttat ttagaaaagc 60  
aaaatggta agatttgctg cattggtgct ggatatgtgg ggggtcctac tatggcagtc 120  
attgcactta agtgcacccatc cattgaagtt gctgttggat atatctctaa atcccgatt 180  
gcagcctgga acagtgacca gcttcctatc tatgaacctg gccttgcatttgg tggatgtgaag 240  
caatgccgtg gcaagaacctt cttcttcagc actgtatgttgc aaaaggatg 289

<210> 5282  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560685H1

<400> 5282

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ggtcagaang nttatgctat tggaaacccg tttggacttg accacacact cacaactggt 120  
gtcatcagtg ggcttcggcg agaaattagt tctgctgcaa ctggcgtcc aattcaagat 180  
gttatacaga cagatgcagc aattaatcct gtaacatgg gaggtcctcn ctaaganagt 240  
ctggaaacct cattggggta atacagccat atattccccca tcngggg 287

<210> 5283  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560686H1

<400> 5283

aaaaggattc agaaatctat tttggaaac taaagttga agagtatcct caggccatgc 60  
gagtagttca tatgttcaat cagcgaaaa ggcgcatttttgc tatatgccag agccagaggc 120  
agtttcaaag tcccttgcac ttgcgatatg gctgttctgt tcaagttaca cttgctctaa 180  
tgttgaccat ttttctcatt gttcccttgc acttattcaa cttgagttaa acggctgctt 240  
cacgnaaaag ggnntaaactt gtctngngt atcgnanaggg cccngt 286

<210> 5284  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560687H1

<400> 5284

actgaacact gattactcac tccttcatgg ccacttcgct gctattttc tccatttcgc 60  
ccacaacctc agccttcaga ttcaaaaggctt ccgcattggc taccaccatc gcccggccctg 120  
ctaccaaggt ggctcccgcc gtcattgtcg gcggcgaaag agtgggcagg gccttgcagg 180  
acatgggcac cggccaagan ctccctcgtn gncgaggaga gtccgtacca ctcaatttcg 240  
agggccccat ttttgnngtgc acgaggaacg atgatcttga atctgtgtt 289

<210> 5285  
<211> 287

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560689H1

<400> 5285

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taaggcaaag gntcacatca gtattgtggt catngccatg tcgactctgg gaatccacta 120  
accactggtc acctgattta caagcttggaa ggcattgaca agcgtgttat tgagaggttt 180  
gagaaggaag ctgctgagat gancaagang tctntcaagt atgcctnggt gctggacaaa 240  
cttaaggctg ancgtgaaaag anggatcacc attgatattt cttgtgg 287

<210> 5286  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560690H1

<400> 5286

gcagcgtcaa ctacaaagcn gcagctactt ttcatgcaan cccacnaaag tttgagcagg 60  
agcnacacct ntgcagccgg aagtctactc cagtccattt tccnaggctt ttgggctgga 120  
anctgtnnga ngtanaaaagg gtcacatgct ccccttcagg ctgatcttaa ngacttggc 180  
tcacaaaatg gtgttgatgt tacaaaaatt gcaggattcg nccttgnac ttctgccntc 240  
gttgtctctg gggcagtgc tgnaagtgtt ccnaagagggc taacttcgac gaaatc 296

<210> 5287  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560692H1

<400> 5287

atgttctgg ggattaacat aaataaaata caagctntag atcaactggg tcttgaccgc 60  
aaaaggtag ggcgatatgc agttgagtct tacttggagc ngattttatc acatggattc 120  
ttccatgctg accctcatcc tggaaatatt gcagttgatg atgtcaatgg tggagnantg 180  
atcttatga ntttggaatg atggaaagta tcagtccaan tatccgagaa ggttacttga 240

agcttttatg gaatttatga gaagnatcca gataaggcc tcanc

286

<210> 5288  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560693H1

<400> 5288

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tctgcgtcct ttgctttcc tagtttttc ttctcagttg ancggtggat caatanaccn 120  
naccatctcc catctatgga aacctcgnaa ccattctcag catagatgna gtngtataa 180  
gggttatcat tccagctgta gttcttgacc acttcgaaaa ggctcttcag gcatggata 240  
aaagtgcattc actagcaagt tattttgatg tcatacgagg gacttagc 287

<210> 5289  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560694H1

<400> 5289

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ttctcaagtc atctcctggtt cttgacaagt gcgagtgggt caaaggccag acccttcgcc 120  
aacctctcgt gagatgtaac cttccctcag catcagctct caccatcaaa gctgcttcct 180  
atgctgacga gctcgtcaaa accgccaaaa cagtggccctc accggggcgt ggtatttgg 240  
cgatggatga gtcaaattgca acctgcggga agcggttggg catctattgg ggtaga 296

<210> 5290  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560695H1

<400> 5290

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tacctgaaga agcaagagag cttgacaagg aggttagacc agattgtaaa ggagaaaagaa 120  
gaatctgttc gcaatcaaga ctttgagaag gccggagagc taagagataa aganatggat 180  
cttaaggcgc agatatntgc ccttataaaaaa aaaggcaagg agatgagtaa ggcagaaaagt 240  
gaggcaggag atgaaggtcc catggtaact gaagttgaca tacaacatat tgtctcct 298

<210> 5291  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560696H1

<400> 5291

gnngaggatn ggtntgttg aagatgtnga atgatctagg caaggtcaga aatgttaata 60  
aagtttcaga cactactttc antgtacttg ccagactggg taagcaaatac gctttaaat 120  
ttngaagcna gatcagaaaa ctggtgactt gntngaatac anaatgcagg gcagcacant 180  
gttagggcat attgtcttcc ttgtacttagt tctgncaggn ccacttatnc cagatancat 240  
ncgctgntat agcagtggan gccggacatt gtattaccg 279

<210> 5292  
<211> 331  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560701H1

<400> 5292

gaaactgaag cctgggttat agaaccttat gatgttagagg atgctgatgg taattgcaaa 60  
gcacttatcc tcaaaggcat tgtgcgtatg gctgatatac agtttcctct tccatacagg 120  
ccaaaaatct ctctctctcg taattgtttc ggtatgccctt gatttcttat ctccccagnt 180  
accttaacaa aactcntcca gatggcaaa gggtatcagc tcatggataa gtggatattt 240  
actggtttc cagataatca aaaggctaag gttgcagatg tttctaaatg ggaagagcgg 300  
ctaagatgag gattcatcct ggtgggtcng t 331

<210> 5293  
<211> 328

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560702H1

<400> 5293

gncatggcca cccacgcggc tcttgcttct acaaggatcc cttcaaacac aaggttccca 60  
tccaaggcct ctcactcttt cccaaaccaa tgcgccctaa agagacttga ggtgacagaa 120  
ttctctgggc tttagatccac ttcatgtgtc acatatgcta acagtgttag tncatcttcc 180  
ttttttgatc ttgttagcttc ccaactcaact cccaaagacca atggatcaac tcctgtgagg 240  
ggagagacag tggccaagtt gaagggtggca atcaatggtt tcggacgcatt tggtagaaat 300  
tccttcgctg ctggcaggcc gaaaagat 328

<210> 5294  
<211> 326  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560704H1

<400> 5294

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ctctgacaca gacatgaccg aagaaggggt tggatgtctcg ttgcaggaat ggcagggttg 120  
ggccaccacc tccccactcc ccaccatggt ttcccaaatac gttgaggatt tgaaggttct 180  
ggaagaagat ttggatgccc acatgaattt tggaggcaat ggtggaaaat tacagggaa 240  
tttttagagta caagaagata agaagcaccg tgccacgtat caggcttggg tgattcagaa 300  
aagaagctcc agttttattc ggctag 326

<210> 5295  
<211> 323  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560706H1

<400> 5295

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cttctcaaca tggngtancg tctcctaacc cataatnact ttactcanta ttgcantgg 120

ggcnanccat gctgctntac cccctgaagt ttactggaag tcggtgcttc ctactacgn 180  
aatgccaaaa gccatcactg atatcctta ctctgatng gtggaagaga nnagcagctc 240  
agtgcattt gnaggtggag gcgtaacgt gcatacagga aaaggangtg gcagtggcac 300  
cactgtcaac gttggtggnna nag 323

<210> 5296  
<211> 317  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560708H1  
  
<400> 5296  
  
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ttggttctca gaatagtggc tcanctgctc ttgaatatgg cagatcattt aaaaacttg 120  
gctcgatata tttgggtgna gaggatgaca ctgatggcaa gcaagatgaa tcttcataa 180  
gtttcagaca gggagatggg gaggataata ttgttcctaa gagttccct gtntgtgatg 240  
atcgatcattt agatgtgatt ccctgcttag atagacaccc tatctatcaa atgaggatga 300  
agctggacct gtctgtg 317

<210> 5297  
<211> 317  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560710H1  
  
<400> 5297  
  
tgggttgca gcagaaggcag cgaaggata tggcgattct ctttccttg cagttccctc 60  
aacnccant tcttcgggta aagctgtntc aatgccaacc ctgtcaantc catagatgca 120  
cagaactata tcntcctcat caaacatatt ancactcgaa ctacatcant taaagtatca 180  
atggcagacc aaaatgagcc gagtgaggaa aatatgcaga ttggatcat gagggagaaa 240  
cttaaagaaa cactgccagt ctcagttcaa gaattcccttg gaaaaaagct gagcatatac 300  
tccttagacag actactt 317

<210> 5298  
<211> 315  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560711H1

<400> 5298

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agncattngc ggcgacgtcg tgcgttttag atggattnag atgcattacc tatctcgat 120  
tttgagccc agaaaacaaa ccaagaccat ggatcgcaag aacccgcgga ggaagcccaa 180  
gctcgancgc cgtaacgctc ttaaatactc ctccctccgaa tacgacgtcn tattctcccc 240  
ctccgacgac acgctctaca cgcgctccat ggnngttctac gaccgcncga gttccgaatc 300  
gaggggcgtcg nggc 315

<210> 5299  
<211> 133  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560712H1

<400> 5299

ctgacttggc tnganccagt tcagcnaaaa tngatcatgg ttccctgggt actgaagtat 60  
ctaanaattt aagtgaactn aggcgaattt agttcatcaa gaggtgaaga nacnacacna 120  
catgcgacgn tgg 133

<210> 5300  
<211> 323  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560720H1

<400> 5300

agngagagag ggagacacaa cacaagggaa ggaaaaccaa gtggaatcaa tagccatgaa 60  
gatcggttccg gaaagacctc gtacccaatg gacctggcag cgttaagatg gttgcagtgg 120  
attcggatga tctctggttt gcgtataacc tgatagctcc cggagactct gtcatggccg 180  
ttactgtcag gaaggttcta agagaagctg ctagtggcgg acgggaagca gaacgcgtca 240

agctcaaatt ggaaatataaa gtccaaagagc ttgctgatta tgacaaagaa ggttctattt 300  
tacgtgttcg cgaaaagaac att 323

<210> 5301  
<211> 322  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560721H1

<400> 5301

accacnaaca ctnaattnct catctcatca tttctaattc taccttnt ctcttgact 60  
aacaatccaa gatgaataacc aacaacgaca ccgaaaaaaaaa ccaatcattt ccagaagcac 120  
aaggnnnnnn nnnnnnnnnn nnnnnnnnnn ncaatgttgg gactgagaat tggggactc 180  
acataatggg cacccctgct gttccaagca gccacccaga taacaaaaaaaaa gcagctttac 240  
aaagtggaca acctcaacca gttcaataact accatgacca acatcaacat ccctacgtgc 300  
aacatagccc agttgacaaa cc 322

<210> 5302  
<211> 314  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560724H1

<400> 5302

caaagagaat ggctcaagca atggcatcaa tgacttagtt acgtggttcc tactcaggtt 60  
gtgttggaaag gtagccttng ctccacacgc ttgantgtgg ggagtggaaag cagggtggcc 120  
tcagtcacac gtgcagggtt cacagttaga gcacagcaac aacaagtcaa tgggtggtag 180  
gtacaaaagta gccgttagggc agtgcttac ttgttgctgc tggtttggacc actggcttt 240  
ttgttcaagc tgtgcttgct gatgccaaac ctatcanagt tggaccaact cncccaactt 300  
ctggcgncgn actg 314

<210> 5303  
<211> 315  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560725H1

<400> 5303

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ggctcaaatac ntcttataga caatgaaggn aatcttaagc ttgcagatct tggactgtca 120  
cgatcattt ctaatgacca naatgcnaat cntactaatac gtgtcattac gttatggtag 180  
agaccacctg agttgntgnt aggnacaaca aagtatggc cagctgtgga tatgtngtct 240  
gttgggtgca ttttgctga gcttcttcaa gggaaagccta tattgcctgg aaaagatgan 300  
ccngaacaat taant 315

<210> 5304

<211> 310

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560726H1

<400> 5304

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tcaaagctag aaagcttca agtgcactat cagctgctag tgctgctgt gaccatatta 120  
gagactgggt tcttggaaact cctcagggca cttgggtatc aatgggagta tattctgatg 180  
gttcctacaa tggccagct ggacttata attcattccc cgtaacttgt gccaatgggg 240  
aatggcaat agtcaagga ctttcattt atgagttctc aaggaagaag ttggattgac 300  
tgcaagag 310

<210> 5305

<211> 304

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560727H1

<400> 5305

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ttacggacac cgtcagagga tcagttgttgc atttcttaca gtgtggcttc ctgcaccaac 120  
tttgcattt cttcatatgc tgatgagatg aaagcaccgg acaacattgg ttctctaattg 180

ggacttcttg gctccatccc ggacaatgct ttcaaaaagat ccggcaggat aaactggaat 240  
ctcaatcata ggatgctcag ttgtatttgg tggtttaana cttgctagtg tgggatttat 300  
ttcc 304

<210> 5306  
<211> 310  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560728H1  
<400> 5306

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actttcaaag gcgtgcaccc caagttccca aaggaggac tcatttcata gcattttggac 120  
tccctctcca ttgggtctgt gttggacgtg aaaggccat tggccacat agagtacacc 180  
ggaagaggca acttcttggt tcattggaaag caaagattcg caaagaggct agccatgtt 240  
gctggtgaa tgggatcaca cccatttacc aagtggcaca agcgatctga aggacccaga 300  
ggaccccaaca 310

<210> 5307  
<211> 312  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560729H1  
<400> 5307

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tctcttccat ccaatcctct cagactgatc ttagacgcaa acacatccta atcacaaaag 120  
cggtgaccat ggcaaacatg attatggctt ccacaaaacc tctggtnca gtctgcacca 180  
gttcccgttc cccccacacca aaactccccca ttctccaaat ttcaactcccc aaagccccaa 240  
ccttggaaact gaaactccca atttcaaagc cccagatgct gtccctcctg ggagggatag 300  
caccatggtc tt 312

<210> 5308  
<211> 296

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560731H1

<400> 5308

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taaacaaatt ttcnaacctt aacaccctac gaaaatcaac taaaganaan cattgntggc 120  
gctccctcac tccatctctg ccttagcnac cacactcaca ctctccnccc caataaccaa 180  
accccataaaa gtñaacccct ttccctttc ctcgaaccga aattcacaat tgtaacgaa 240  
acaaacgcga nccagaagca gaagnnacct ctnccctaacc cctgcacgcg ttgggg 296

<210> 5309  
<211> 109  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560732H1

<400> 5309

catcaattac tggngcctt gttgtgagtn agaganaagg cttcctgcac cgagcacncc 60  
aacttgatac ctctgnttcn ttcttnctt agaattccac agaatatgg 109

<210> 5310  
<211> 332  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560733H1

<400> 5310

ggtaaangna gcnaanncaa gagnangagn aagagcgaaa ncggcagagn aggatggaa 60  
ggtgtngag gtttcagc aagccacagt tggtgctcgc ggacaagcta ttccctctcc 120  
gggcantccg ntgtgcnaga cgttgacaag gttcgctaca aagaggntgt cttcaatcat 180  
gttnnaggaaa acgttntggt ccctntgtna taaaacccta gtcgntgatt ccgtggtngn 240  
acttggatcg tgccctttn gactctatgc gcgctaaaat tgncgacgag ctcnccangc 300  
tcgacgaaag attggtgatg ncgaggtaaa nt 332

<210> 5311  
<211> 166  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560734H1

<400> 5311

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tggttggaca accatgaggc tnctcaatng tnacctacca atccatattc tggcnacaaa 120  
gcnggtgctg gnaatgcttg tcataggacgt atggtagagc gtatgg 166

<210> 5312  
<211> 320  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560736H1

<400> 5312

cacgcgccgt cctcatggat ctagannccn ncaccatgga actccgtcag atccggcccc 60  
tacggccaga tcttccgccc cgnacaacct cgtcttcggc cagtccggcg ccggaaacaa 120  
ctggggccaaa ggtcactaca ccgaaggcgc tgagctcatt gactccgttc tcgacgnctg 180  
tcgcaaagaa gccgagaatt gcgactgctt gcaagggttt caagtgtgcc atnctcttgg 240  
tggaggaacg ggttctggca tggggacgct tctgatctnc aagatcggga ngagtatccg 300  
gatcggnntga ngttgacttt 320

<210> 5313  
<211> 316  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560737H1

<400> 5313

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tttcgtcat tcaaatatca tccaaatata aatatgagtc gtcataccga ggttaagtgg 120  
gctcagagac ttgncaaggctt atatcactg gtgcaattgg ctgattcaaa aaatgccaag 180  
gtggatctta caccagatgg tattttacc ttctctggta gtgctggc tgaagaccat 240

cagtatgagc taaaactgga gctcttgac aaggttaatg tagaggagag caaaattnat 300  
gtaggagtgc gaacat 316

<210> 5314  
<211> 313  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560738H1

<400> 5314

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aggagcttta tnattcccta accaaccaga agttgttgtt ggggcaaact cgaggctggg 120  
atcgctcgtc agtggatgag gcattcaa at acatnaggga gatcatcaaa tgggacgatg 180  
agaaggatga tgatgtatat gaaatcaacc cagaagagtc ttttacagta cagaaatgag 240  
ttcttctcca ttcatcaggc aagaatgaat tcccaacctt tgataancca tctttgagat 300  
anatagtctt tat 313

<210> 5315  
<211> 309  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560740H1

<400> 5315

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ctata gagaa gctgaatggt atgctgttga atgataaaaca agtgtaccgt nggaaccttc 120  
cttcgcaagc nagagagcga aagtgctgct gacaaggcaa aattcaacaa tgttttgtg 180  
aagaatctat cagaatcaac caccgatgat gagttgaaga acactttgggt gaattggaac 240  
tattactagt gctgttagtaa tgagggntgg ggntggaaa tccaa gtgtt ttggatttg 300  
nattttgag 309

<210> 5316  
<211> 308  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560742H1  
<400> 5316

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ctcngacgcc gagttccggg cagaagaatg gatcaggagg ttgtttctt agtggaaagga 120  
aattgagggt gaaaaaggag agagcagcaa ttggaggacg atcgatggc actacagtgt 180  
gcmcagttgc tgagcctgac agacccttat gggtccagg cagcacccct cctccatggc 240  
ttgatggcat ctacctggag attcggcttt gaccctcttgc gtcttggatc tgaccggag 300  
atctgaga 308

<210> 5317  
<211> 312  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560743H1  
<400> 5317

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agtgagaaca tgcgtctact atagttgcca gnnnnnnnnnn nnnnnnnnnn ngacgtctgc 180  
ccttcttgct attaaaacca tgcntccat tgcggatac ttgggtgcatt gattgctcca 240  
gctcgccaag atctatagca aaaaaggatt ccatgtcgta gtccgcactt agtgtgcttg 300  
gtccgatcta tt 312

<210> 5318  
<211> 308  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560744H1  
<400> 5318

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cacttttga tggtgttgc ttttctgagc cactcaccgg agctcgttt gaggagttga 120  
acaanngatt tgttccggaa gaccatgggg ccagtgaaga aggctatgga agatgcagga 180

ttacagaaga gtcagattga tgagattgtt cttgttgtg gaagcacaag gattccaaag 240  
gtacaacagc ttttgaagga ctactttgat ggaaaggagc caaacaaggg tgtcaaccct 300  
gatgaagc 308

<210> 5319  
<211> 303  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560745H1  
  
<400> 5319

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aacggcgcgaa ttgtattnnt tcgtgctgtt cagaataatt gcagagatga agaaaagaaaa 180  
cagtgttatg ctgaaagctg gggagctccc tggtcgatttgc actcgctc gagctgctgc 240  
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cag 303

<210> 5320  
<211> 304  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560746H1  
  
<400> 5320

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cgttacaacg gtgatgctga ccatcatcag cgacgtaaaa agtttacatt tcctgctcgc 180  
cttatatgtg gagattgtta tgagggttcgc ttggacaaag ttctgctcaga tgatgctcct 240  
tttgatattg tagctgccag tttgcattgc attactcatg gtctacggag gccgtgcccc 300  
gcaa 304

<210> 5321  
<211> 310

<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560747H1  
  
<400> 5321  
  
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atcgggcaaa catatagtgg aagcaagcgc aaaggctgga aatcccactt ttgcttttgt 120  
gagggaatcc acactctctg acccctccaa ggcacaactc atccacaatt ttgaggcttt 180  
ggcggttaat ttggtccgcg gggatctgta cgatcatgag aagtttgtga aagctatcaa 240  
gcaagtagat gtcgtcatat ccacgctggg tcacctgcag cttgccgatc agctcaagat 300  
catcgctgcc 310

<210> 5322  
<211> 311  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560748H1  
  
<400> 5322  
  
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cagttttg gactgcaaga agaacaagta cctctaatta tcattcaaca caatgacggg 180  
aancagtttt ttaaacccaa tttgaaagct gatcacattc caacttggtt gaaggcgtac 240  
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ctgttaaagt g 311

<210> 5323  
<211> 307  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560757H1  
  
<400> 5323  
  
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accttactag caatcttggc catactaata tttgccgtaa cccctttatg gtacccttg 180  
ttgagttact ctccacactt gaacatcaat aagaatattc catcatcatc ttcatcatat 240  
gatcaaaggc aagaagaaaa ttgcctcaa catatgtgga gaagtgtgac nttcagtgg 300  
ggagtgg 307

<210> 5324  
<211> 305  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560758H1

<400> 5324

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gannggnacg cnaggaggaa nctattggnc tancagaaaag tctnttctt annccgggtt 120  
cttcanaac aatggtgcng antgtctntt tgatgncttc tcattngttac ctttcctggc 180  
cttgtcttgc ncccacaagt actgggcttn ncctgcgcta tctgaagggc taccaaacat 240  
tctgtccttc tccagtagcn anancagacc tgatcagana ncattncgtt gncttgagcc 300  
agtcc 305

<210> 5325  
<211> 304  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560760H1

<400> 5325

anttaggaat atgtccagaa ttgaacacac tcagcattga agcaccgtt atggttcac 60  
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cnctcgatgc ttcccttngc agccaaactaa cgatggctg cttgtctgca acaactgtct 180  
catgccccact gattgaatca ttgatattaa tgtcatgctc atcaattggc tcagagggtc 240  
ttcgatctct gtattgtctc caaatttgac tggtcttgac ttatcataca ctttcttggc 300  
gaac 304

<210> 5326  
<211> 301  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560762H1

<400> 5326

tgaacaggct gtgaaggcca tcaaggcagn gaggaaggaa gaacagttga ggagtatgtat 60  
tacctnccat acttctattc ccgttcattt gatctgtctt ggcaattcta tggcgacaat 120  
gtcggcgaca cagtatttcg gagacaacaa tcctgcgtcg tcaaagccta agnctgggac 180  
atactggatt aaagatggga aagttgttgg ggtcttctgg aagtggact cctgaagaga 240  
accaggctat tgctaaagtt gctaaggtcc agcctccggt tgcagatgta gatcacttgc 300  
t 301

<210> 5327  
<211> 309  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560771H1

<400> 5327

ggagnaacac cgtcaagtca tgatcgcaac ctgcgttcg accttcaaac tnacacacccg 60  
tcgcccnnnnnnnnnnnnnnnnnnntga ccataacctt tnancattc gcaatgtcag 120  
angtttcgcc ctatcctcac acacaacttc tctcantctc aatctcccta cgccctaagta 180  
agtnaatgag aagattgnta tattcnncct tgcagttata ctattggngn gacantggta 240  
aagaatgatg ggctctcatc tcttgcnag tggcatgtt gtanatanag accttggttc 300  
atttgnaac 309

<210> 5328  
<211> 307  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560773H1

<400> 5328

tctcaactntc attnctacat cccgggnct gngccgtcga tgacgatggc ggtagggtg 60

cgaaatcctg acctncngcn ttctcattct tctctctctc ttgnccatna ncttccgcca 120  
aggtcttctt cgagggngctt ttacgatgan ggatggggaa atcggtgggt taaatcagat 180  
tggnaanng atgagaacct gnctggggag tgganccaca cctctggcca atggaatnga 240  
gacnctaacg ncaaaggat tcacaccagt gaggattaca gattctacgc tatttcagcn 300  
cantacc 307

<210> 5329  
<211> 262  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560775H1

<400> 5329

tacgtcgtca tatgttacat gttgccaatt ncctcggtgg caatcagtga acaacgcnaa 60  
atcttaact tggtctnttg tngctctttt gtactactag ttctgaacat ggagctgttg 120  
tctctgngac tcacccctnc accttctgon tcgacntcan cgctcctgca gcacttgctc 180  
actgctccaa gctatgtgag tttcaaccgc ggnagaagaa gaaggtgtgt gtcgacgcgc 240  
ctaggcttgc ggtgcggtgt gt 262

<210> 5330  
<211> 302  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560776H1

<400> 5330

ccaaggcttt ctacctcaag atgnagggag actaccacag gtacctcgcc gagttcaaga 60  
ccggcgctga ccgcaaggng gccgcccaga gcacgctctc cgcctacaaa gccgctcagg 120  
acattgctaa taccgagttg cctccaaactn caccctatca ggctgggtct tgctctgaac 180  
ttctccgtgt tttactatga gattcttaac tctcctgatc gggcttgcag ctttgcaaaa 240  
caggctttg atgaggctat tgctgaattg gatacattgg gagaggatca tacaaggata 300  
gc 302

5331  
297  
nucleic acid  
Glycine max

Clone ID: 700560777H1

5331

actgcnagtn tgtcaccanc atggccncng tcanaancca agcntccgcc gcgattttcc 60  
ggccatgtgc ctcgaaatcg aggttctga ccggntnttc cgtaanctc aaccgggaag 120  
tgactatnag gccaatgggg tgccctcctt ctgcctcttt caaggttgaa gccangaagg 180  
gagngtggtt accggcttg ctccccaaacn tacctaattg gnatcttctt ggtgacaatg 240  
gattgaccct ctgggacttag ctgaggaccc agagaattga gntggtagt tcaagcc 297

5332  
106  
nucleic acid  
Glycine max

Clone ID: 700560781H1

5332

gtcaaaaatca acggcaaaaaa ggtttcttc gacacccct tgggtggggg tgcttcagct 60  
gagcacggtg gtgccttaca ccactctcca aacctcgatc tatgca 106

5333  
106  
nucleic acid  
Glycine max

Clone ID: 700560782H1

5333

ttggggcta gctaagcnaa gctaanancca aactcttcag cagttntnt ttncttagct 60  
nctactnctg ctttgtgcttt ctnccancaa ccacagacca ccancc 106

5334  
310  
nucleic acid  
Glycine max

Clone ID: 700560784H1

<400> 5334

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gacgattctc aaagacgaga agaacccctcg acctnctcg cgaggatgac atcgccctcc 120  
tcaagaccta cggtttggga ccttactcca caagcataaa aaaggccgga gnnggaaatc 180  
aaagatatgg ccaagaaaagt gaatgactat gtggtataaa ggagtctgat actggtttan 240  
ctgcaccaag ccatgggatc ttgttctga taagcaaatg gtgccggagg agcaactctt 300  
cagtgcaag 310

<210> 5335  
<211> 302  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560787H1

<400> 5335

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aaaaggaaan catgtatgat ctagttgatg anatagcggg tctttggatg ctttnaacat 120  
taccaggct tcccttgnngt gcaaggattt ggtcaatcc caggttatct tacagcagct 180  
gtgcatccag aaagagtagc tgctgtcatn actttaggca tccttcatgc ttcctggtcc 240  
ctctnctgtc caaaaaccacc ttctnccaa aggcntctat atactaggtg gcaggagnct 300  
gg 302

<210> 5336  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560789H1

<400> 5336

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cactttgcag caaaaagtcta ctcagtcnat ttccaaggct tttgggttgg aacctgttgg 120  
agctaaaaag gtcacatgct cccttcaggc tgatctaagg acttggctca caagtgttt 180  
gatgctacca aaattgcagg attcgccctt gccacccctg ccctcggtgt ctctggggca 240

agtgcgtgaag gtgtgccaaa gaggctaacc tcgacgaaat ccagagnang a

291

<210> 5337  
<211> 301  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560790H1

<400> 5337

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agtccccanac tcgtttccat ctccagagcc agagacnaac cttatactct cgtgatccgt 120

tcctctggcc acctttctaa taagctaaaa gtttcagccc tcaaaagcna cgaancaaag 180

ccacagcagt tctcaactgtt tcaaaacgga tggctcccg ctttcccca cgtncgtt 240

gcttcataatgt ctaatttata tttgggtatc acattggngt catgaangtc ctattgtntc 300

c 301

<210> 5338  
<211> 301  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560793H1

<400> 5338

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antnttgaat atntngntgg gttnaatccc tgggntgaaa gcgttnccaga catcacgggc 120

tatnctaagg agtgtctcgc ctctcngcan tcatgtgccc aactgtacga cggaggacng 180

nttnctata tgccaccaan ctttcggcgc acgtggcggt ggtgctntgc ctactgangg 240

tggtagcctt ccaacttgca ctctanctgg tggtggtctg ctgtcttcta agcttcttct 300

t 301

<210> 5339  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560795H1

<400> 5339

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cntcgttcg agcttcgatt acactctctg gccttctac tgtgagtgcc ggtcgaagca 120  
cgacacgcct tctnctgtnt ccanattcaa gagggngcng catgcactca aacaggagag 180  
gattgatgtt gccattgctt ccaagtcgcc aactcccac atcgcaacac gtatctngac 240  
aaatcagcat cgagncaatg tttgctgccg aggaaanatt ttacantgga aggacaaa 298

<210> 5340  
<211> 302  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560801H1

<400> 5340

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tgattgctag gggagtgtatg ctgggtctga ccagccccgtg atcctccaca tgcttgacat 120  
tcnnnccagc agcagagtcn cnngaatgggg ttaaaatgaa ttgggtggatg ctgcattccc 180  
tcttcttaaa ggtgttgtg ctacaaccga tgtggttgag gcatgcactg gggtaatat 240  
tgcagtgtatg gttgggtggat tccctagaaa agaaggtatg gagaggaagg atgtgtatgac 300  
ta 302

<210> 5341  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560802H1

<400> 5341

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gatagagatg atgaagatga tagaagggat tatggcanaa gaggaagagn tagagatgat 120  
gaagatgata gaagggtntt acggcagaag aggaagagaa aatatgacan ggatanagat 180  
agatatgaga ggcgcaggag agatgaacat gaagaagagc tgggcgtgga agggctnnng 240  
ggatagagat ggtatangaa gggtttacag cacggttctg gtgaacttga attatatgcc 300

<210> 5342  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560804H1

<400> 5342

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gaagcacgccc gagaaggggaa agcttccgaa ctacgtggtg gtggaggcaga ggtacttcga 120  
tgtggagggtt tttccggcga acgatgacca cccctgcatt acgtggcgcc cgggcagatg 180  
ttcgtgaagg aggtgtacga gggtttgagg aagagttcgc agtgggagga gatggcggtg 240  
ctgattactt acgatgagca tgggggttt tatgatcatg tggcgacgcc ggtaga 296

<210> 5343  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560805H1

<400> 5343

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tgaacaatgg cctctgcattc agcatctctt ctcaagtctt cacttgttct tgacaagtct 120  
gagtgggtga agggacaaac acttcgccaa cctttgctgc atcagttgtg agatgcaacc 180  
ccaccaccccc atcaggccctc accatcagag ctggttccta tgctgatgag ctcgttaaga 240  
ccgcgaaaac agtggcttca ccagggaggg gtatTTggc catggatgag tccaatg 297

<210> 5344  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560806H1

<400> 5344

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caanncntac nacgaggtat tggcanacag aaacaccctt tctagcattg cgatttgatc 120

tctccaccc ggtgaaagcc ntgtgaaaca taaggctta cagaaggtgg aattttgact 180  
agaaggatg tttggctgtt gagtttatgg agggtcaagc tctttgttga atagtgttg 240  
tgttgcctta tctgcaattt taattgaacc aatcctaccc ttttatgaa catatgg 297

<210> 5345  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560807H1

<400> 5345

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gaatttagcat ggtgaagctc taatttgat tgaaaaataa cactaaaaac acctgatgaa 120  
ctgtatctaa gcttgcctca taacagaatt ggaaggccga tgtaaattcc tggcacatac 180  
gactancntc attgattaag attgcaagtt tgggttggct tcaaggtag catttgaatt 240  
gagatattaa taataggatc ctgttacccct gtgtacttaa ggtaatggtt aaggaact 298

<210> 5346  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560808H1

<400> 5346

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agaaaggctt ccacttctgc aatgctcanc ttggcgcttc ggtgtttcgc tattgctggt 120  
tgccagcttc atttgtgctc ttctgttatg gcaacatctg aagtttcagg gaattcagtg 180  
gataccgatg ggaagcttgtt aaatgaagag ccagaaaaaa caaggcttca aggatatgt 240  
gaagaagaaa aatttaaagg gctttccaa aatctattcc 280

<210> 5347  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560809H1

<400> 5347

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agtttacca tttggatcca tggaatttgg a gctagagaag agcaattcga ctgaaggcatt 120  
caggtctatc ctggaaaaga tagaaacagc caagctgagg gtggtaact tgatgttcta 180  
tgccatcaac tccaggaatt aatttcttcc ctgaagccat caaaagacat aattcaaagc 240  
attggagaa tattcccaag caatgcacgt ttaatttttc gatccagtgc caatgtttag 300

<210> 5348

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560810H1

<400> 5348

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tgctgttagaa gagaagaaan agattgaaga gacccagcag accgacaagg acagatggaa 120  
gggtcttgcc tatgatatct cagacgacca acaagaatca caagaggaaa gggtttggtt 180  
gactcccttt tccaagctcc acaggatgct ggaacnncac tatgcagtca tgagctccct 240  
cgagtnccctc agcactggac ttcccagtn cttggacaac aaaatggatg gattctacat 300  
tg 302

<210> 5349

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560811H1

<400> 5349

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ggtaagatt tgctgcattg gtgcggata tgggggggt cctactatgg cagtcattgc 120  
acttaagtgc ccattccattg aagtgcgtgt tggatgtatct ctaaatcccg cattgcagcc 180  
tggaacagcg accagcttcc tatctatgaa cctggccttg atgggttgtt gaagcaatgc 240  
cgtggcaaga acctcttctt cagcactgat gttggaaagc atgtcttga ggctgaca 298

<210> 5350  
<211> 301  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560812H1

<400> 5350

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ataacatnnnc tacntatntc atntcgacac cgacacncca aacatacnac tcncaacgac 120  
ctncaacntc tccnatctta acctccccaa accctactta ttcctccctc catanccaa 180  
cttcccncac ttgaattntc ntccatttagc atnaccccaa ccctaatcgg tcaaattcccc 240  
tcatccatcg cttaaactcac ccaactccnt antaatatat cacccacaca acatanatnt 300  
a 301

<210> 5351  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560813H1

<400> 5351

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ccaagtgagg aacaagcaag tggttctaag agattntgtc accggattcc ctaaagaatc 120  
cgacacgaac attgttgaag gcaccataata ttgaaggttc cagaaggttc caatgatgtc 180  
cttctaaaaa atctctactt gtcatgtgat ccatacatgc gactcctnat ggccaaggac 240  
cgtttttcg gagatggctc cttcacccctt gcctctccat tgaaagg 287

<210> 5352  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560814H1

<400> 5352

cattgctcta ttccaaggcc atacacctgc tattcctttg gatgatacca aaggagtggc 60

tgagccacct gatatccaga acagaganag ncacaataag gtagaaaagta ttaattnctg 120  
ttttggatca aatccttcaa ctgaaacgac ttcaaaacat catggacatg aaaggtaata 180  
ttgatgatcc catgaattat ttctcatcg tgaacttcga aggctgtaac tttggggcgt 240  
ttaatgaatt ctcccaacct ccatntgaag attcagaagc ttctttct 288

<210> 5353  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560815H1

<400> 5353

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ngtgggattt tcagtccctc acaggcactn tcttgtgang ccagtgaaga ggcagatgat 120  
gggaaagagc aaggaaatga gaattnatgc caagccacca gcattcctgg tgatagagtc 180  
cctgacatgg gcaaaagaca gctcatgant ctgcttcttc ttggtgncat ttcanncccc 240  
tctgctggna tgcttattcc ctacacctac tttttgtcc ctccagt 287

<210> 5354  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560817H1

<400> 5354

aacacgtcac ctctgccanc cattttcctt ngtttctnta ttcttnnnn tggaaacgtg 60  
agcgccanga tcggacactt gtctcccatt nccttcattt tcacagtttc catctaacca 120  
tttctcgtag aattccagtt ccagttcag gntcacngan ttgatggcta aagttggtaa 180  
gttgcggana aggctcgagg tcacagggca agcccacatc tttgtcttg tggaagaaaa 240  
aatctgaaag atgttaatgt taggaagagc tcttctaaag cattggngaa gaaagatggg 300

<210> 5355  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560818H1

<400> 5355

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gatggaccgt caccttctct ccctcggtcc aaattttccc cagccagcat gtccattttc 120  
agcgtgctaa ccatgatgtc aggagttgtt ctatatgacg cctcttggtt cccttgcg 180  
geagattcac agggaaacct tctgaaatca catgtttgca aagaatggga ataggcttca 240  
taatcaatat catagccact gtgattgctg gcctaattgga aatgaaaagg aatctgttg 300

<210> 5356

<211> 231

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560819H1

<400> 5356

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atcacactgc taaaagtcttg gtctctgccc tggcaatacc caaattgacc aaaatcccg 120  
ctctggactt cttcaacgcc ctactcctcc agacccactc gatgacgctc gtcaggctcg 180  
gagatcgtca gattggaagg ctgcaaagac atatcaagat agtaaagtca t 231

<210> 5357

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560821H1

<400> 5357

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nnnnnnnnnnnnnnnnnnctcc atatcaaaca aagtatagat aaaatntcat tgcaagcttca 120  
ttttcattcct ccaattaatt agcaatgggg cacaatccct tttcaactncc ttttcctctc 180  
tttagttcaa ctctcttctt gtttcctcca ccccccttcc ttcttcacgc tccaaacagcg 240  
tttctttccc cgccctctcc aggaacataa ggaaatcggt agaagataga aagat 295

<210> 5358  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560822H1

<400> 5358

tttaattttc tatttttattc tattacactc aaccagagag nngaaggcgc aganaaacagt 60  
gagaagaaga gcttgggttt accgttgcgt tgccgtgacg tgccccttat cttgttggca 120  
ccaaaggccg aaactttgaa gataacaaga gagcaatggc tatttgttgc tctgggtcgc 180  
acacactttt cgtgaaccgt tccaatttga agactgtggc ggttctgagc agagagaaga 240  
agatgcgtgt gcaatacgat ctgaagcaag ggcagagtcg tatttccacg agctc 295

<210> 5359  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560823H1

<400> 5359

ggggactttg gccttagcaag actgttgcca atgcttgatc gatacgaaaa gggcagcaaa 60  
atttcagagc gcactncggc tacatggcgc cagagttgc ctgcaagacg gtgaaaatca 120  
ccgagaaaatg cgatgtatat gggtttgggt tcttgtcttg gagatcgta cagggaaagag 180  
gccagtcgaa tacatggagg atgatgtggt ggtactatgc gacatggta gagggggcttg 240  
gaagaaggca ggggtggagga gtgcattgtat gagaggctcc aaggaaagtt cccagc 296

<210> 5360  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560824H1

<400> 5360

ctcaaattggc tttgggtatg aaggagactg gggtnctcat ccagctgaga tcgaacctag 60  
tggaattgaa ctttttgagt accatgtatg tgacgaaccc tctgaagatg tcgacataag 120  
catcaaggcc aagaggaaag atgatggtgg catttttgaa gactaagaat tgctgataaa 180

gaaggtcgca tccgaaatat ttatcccata tttgacatag agctggacac ggcaataagt 240  
gtggcaactg aaatggttgc agagctggac atgactgatc aggatgttac cagaata 297

<210> 5361  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560825H1

<400> 5361

cccattgtnt ctcttgcttt cttcatacat ggattgccta ggcctctgtt cacacgtct 60  
aatgnctcgc attttaattt ctcctggatt atatctgcac taggtaatca caacaactca 120  
nagaaaaagaa ggctggccaa ttcaaattcag tttaggtgtt tcagatccaa agattggttg 180  
tcagatatct gaactcccta aaattcctgc caaagtaacg agtttgcacag tgagcttctt 240  
cgtggtgtgc gcctccattt tgatagtcca gggattggaa aaggcac 287

<210> 5362  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560826H1

<400> 5362

gccgattcaa cctcaagcga ttcactctca ctgcacatgg attcnnttc tccttcacct 60  
caggaacata tcatacganc acgtcatggt tctgttatctg ttgctgtata tggagaccag 120  
gataagccag ctctaattcac atatccggat ttgnntaaa ttatgtctcc tgcttcagg 180  
ggttattatt ttgtccccag gcatattacc ttctgctcca caatttctgc atttatcata 240  
ttatccacc tgggcatgag ttgggagctg ctgcaatcga tcaagatcac ccaattc 297

<210> 5363  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560827H1

<400> 5363

cggtggatcc cagttctga nccttcttg cgacgcggcg gcgaacaccg cgatgtggag 60  
gagaggatcc gaaaggcggc ggatggagat ccgggtgcacc ggaagatatt tgtccacgga 120  
ttgggctggg acactaccgc cggaacccta atagcgcgtt ccggcagtac ggagagatcg 180  
aggactgcaa gcccgtcacc gacaaggctc ccggcaagtc caagggtac ggcttcatcc 240  
tcttcaagac gcgcccggc gccaaaacgc gctcaaggag ccgcagaaga agatc 295

<210> 5364  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560828H1

<400> 5364

cccggtggac ttacaatgac cccacttcgt gcnaagtata atgacaaaaat ggcagcaatg 60  
aatgcaccta tagtaaaacc taaaggaagc aagaagttga aagattggga atcttagggaa 120  
tctggatgaa cttgaagtta caaaactatc atgaagatat agtccttcag ttatagctca 180  
cggttataa ccagattaga tatcacctta tcctatgtat gcttgtgttc tgtcttaata 240  
cagaatgtaa agtagttcat cacggctcaa gcatgttatg gatctggaaag 290

<210> 5365  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560829H1

<400> 5365

gcaggattcc ctnatccagc catctcgaaa tgtccgaccc ggaaaaacaca cccgcgcnn 60  
cattcggagc aagactcctc ttcgccaccc cccgncccaa naccaacccg tcgcccgtga 120  
cgccaagctc ggccccgccc gcgttcctt agcatatggc cccccactca ggcacgcgc 180  
gacgccgtca tcactcgct catcgaaacc ctatcctccc cctcngtctt ctccaaacgt 240  
tacggacaa tgtccccgca cgaggcctcc actgcccggcc ggcagatcga ggac 294

<210> 5366  
<211> 288

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560830H1

<400> 5366

ggcgtttcta tattacttgc aatagccact ctactatata cattacaaat taattgaagc 60  
acacttgtca catttacatt tagtgacaga tatatagtaa ncatcatcat gggtttgaag 120  
aacagtggcg ttggtcatacg agcatgganc tccttcgggc atcattgctg tgggcaagca 180  
aagggtggcgt gttgaggcgc aggggtggcga tggagctgctg tctgtaccaa agtacttgaa 240  
gcgactcggc cacactgctc ctccaagcca cattcatatt tgaacgcg 288

<210> 5367  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560831H1

<400> 5367

gtgngataca attgaggatg catcanantc anacancaca ncaatgnnca canncatcnc 60  
tancaaacaa gctgttaattg gattatggag tggcattgct tggactngta gggatnactg 120  
tgttcattgc tgtgttgtct gaatatgtgt ngananaatt naggatncat cagattcntn 180  
gggtntgtct gtnagcttc tcagcanaat cttgctacca atagttggna atncagctga 240  
acatgcagga ncaatcatat ttgcttcaa gaacaagctg gacnnttcatt 291

<210> 5368  
<211> 299  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560833H1

<400> 5368

ggctaacggtaacaa acggtaaca gcggggtgaa ggaggtgcattttcgtggag tgagaaaagag 60  
gccgtggggg agatacgcgg cggagatcag agatccccggc aagaagagcc gcgtctggct 120  
cggnaccttc gacanggcgg aggaggcagc gcgtcctacg acgcccgcagc acgagagttt 180  
cgcgcccta aggccaagac aaacttccct ctccctttgg aaaatgttaa gaactcgagc 240

cccagccaga gcagcaccgt cgagtctcc agccgcgacc gcgacgtcgc cgccgattc 299

<210> 5369  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560837H1

<400> 5369

acttattcaa tttnatctt tctttgctc tttgtgcatt ataatcttct cttgtcatta 60  
caacccccc gttactcaa tcagaaaactc tcatttgaag ctaacaaaca acaaagatca 120  
acggatctat ctaccttcag tcatggtgtt tctttcaacc aacgcttctg ggtttcttct 180  
tcgcttctcc tcctcgcggt cctctctgtt tctctctcac tcccactttc ctttctgaca 240  
ccgttttcga ttctcaacca ggcataccg gtcggaacct tcttcaggct aa 292

<210> 5370  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560838H1

<400> 5370

caatggcatc cacacaatgc ttctncacnc caccatgcc tcaccactcc aaccanagcc 60  
ncatcacagc gcttagttgt gagcaccaaa ccaaaccaca ttgtttgcaa ggcacaaaag 120  
caggttgtcc aagagggtga ggacactact aacttgtctc tcgcagggttg gccctcactg 180  
ttctcattgg tgctgctgct gttggctcta aggttgcacc tgctgatgct gcctatggag 240  
aagctgccaa tgtgtttgga aagccaaaga caaacactga cttccttcca taca 294

<210> 5371  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560839H1

<400> 5371

agctgggtggc gccggcnaca gtggggcggtt acggggagtt tatgggtgggg gctgcgggtgg 60

ggacgangga ggacgataag gagaggttgg agcatttggt gaangctggg ttgaatgttg 120  
tggtgttggta tagttctcaa gggactcaa ttatcagttg gagatggtga agtatgtgna 180  
gacgggtgtac cctgagcttg atgtgattgg gggaatgtt gtgactatgt accaggctga 240  
gaatctgatt caggctgggg ttgatgggtt gagggttggta atgggtctg g 291

<210> 5372  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560840H1

<400> 5372

attttggcac gcntcangtt gcttctgagg ccnctttgac ncgaaaaaaaaa cctcgcaaaa 60  
attgttcttg gggattata tggcaanctc gccaataatg aanatacaga caatgnnttc 120  
tggctcagaa acntactttt ganagggggt tcaacatggc acagtaaaaa cctgtttgtc 180  
anttgtgtng gaagccatat atgtctgatc tgacgtatata ttgctgtgag acatgccgaa 240  
attggtatca cgctgaagct gttgaacttg aagnntccaa aatttctagt gtgt 294

<210> 5373  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560841H1

<400> 5373

tgcaattgaa gttgaagtct tgcccttctc tcttcaactc caaacacaag acatcatnca 60  
tccatggctg cctccgtctc cactgtcgga gctgtcaaca gagctttttaa gaacctgaat 120  
gggtctggac ctggggtttc agctcccaagt tcancttctt tgggagcagc ttgaagaagg 180  
ttattggctc aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg 240  
tagaagagaa gaaagagatt gaagagaccc agcagaccga caaggacaga tggaaagg 298

<210> 5374  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560843H1

<400> 5374

gtttcccttt cattttccct cacttctcg ctgcggaaac gcccctctct ctccttcaat 60  
ggccgaccag ctcaccgacg accagatcgc cgagttcaag gaggccttca gcctcttcga 120  
caaggacggc gatgggttgc ttactactaa ggacttggga ctgtgatgcg gtcactaggg 180  
caaaaacccaa ctgaggcaga actgcaggat atgattaatg aggttcatgc tgatggcaat 240  
ggaaccatcg acttcccaga gttcctcaac ctgatggctc gcaagatgaa agac 294

<210> 5375

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560845H1

<400> 5375

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caccgttatac agggatngct caatttgta gcnagttgc ccagcctggc gatccagaat 120  
atgctccacc tgtcccagaa acgagactcc tgcacaanaa agagcnagan tacacaagct 180  
aaggcttagag aaaggagctg caaaggctgc tgaggagctt gagaaatatg atccacataa 240  
tgaccctaanc tgtcgggaga tccatataag acttgttngt ggc 283

<210> 5376

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560846H1

<400> 5376

cagatccgaa cgcagtaaaa aaaccatggc ggaagaacac cgatgcgaaa ctccccgaagg 60  
tcacctactn ctgcggcaac aactgcggct tcttcggtag caccggccacg atgaacctct 120  
gctcgaaatg ctacggcgcg atccgcttga aggagcagaa gnagcgtcga cgaaatctac 180  
aatcgtanacc gcgctcttctt cttccctgtt gaaaccgtcg ttctccacgt cacctccaac 240  
gttgggtggat gtcctcatcg aatcgccgccc gccgtcttg gcggagggttgc cggtcacgg 300

<210> 5377  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560847H1

<400> 5377

gcgaaacaga agaaaagaaca agtttagagtc ctccacgcaa acctcatcng ctcaaattcct 60  
tcctcgccag cattccggct ccaaggaaca cggccactt cggcggttcaa gcaagttccg 120  
gttcaggccg gagaccatcc tcgaaaccga atcgccggca ccggcatcaa attccggtgg 180  
ttccaacaat tttcccgttg atcaaagtac aggggattat gaaaattatg agaattacca 240  
atatgccacc gaccagtatg ctaatttatta tggcaatt 278

<210> 5378  
<211> 299  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560848H1

<400> 5378

caactcaactc acagagtaat ggcatccatg gcggctatacg gttctctgaa tgttccttgt 60  
tctgcttctt cgcgttcatc gaatgtggga agaaaaagct ttccacgcag ctttcattc 120  
gctgcacatcac aactttgtgg agacaagatt cacacgattc agtttcattc gcaccaaaaa 180  
tcggtcgcaa tcctgttaatt gttaccccta aaggcagttc tgattcccaa aactcccaa 240  
cctgtcttga tccccatgtc agcagaagtg tgcttggcat tatacttgaa ggtggtgct 299

<210> 5379  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560849H1

<400> 5379

gtgaagaagc tcaaagcggtt aaactgcttc ttcttcttca atggcggcag aatcatctcg 60

cagtagcgct aaacgcccct ttatggaaga agacgacgac gaattctcca aaaagccacc 120  
agcaaaaagg gtaggtttc caaaggaaa gaagtgaagc caggagatga agtggtggtg 180  
gacaagcaa atgttgagga gggtaagaa gttgacttgg tgaatgctaa aactgctacc 240  
aatgctgcca aagagcggga aaaactcaga aggttctaa agggaaagaa atgaa 295

<210> 5380  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560850H1

<400> 5380

atanattggc ataccctttg ctgctgctct ttacccatcc attcttcaaa tggaaaagct 60  
ccatgcttct gtgctcgccc tgtattcctt cttgtcatac tatttcagga aggattggta 120  
acatgtatga agaatgaaga cggatcagag aatggggata tgtgcaagtt agacaaaaag 180  
cccacttgtt ctggtggctt tacagaagtc catacagagt ggagaatccc tccaagcctt 240  
ggccaatcat ctctggcttc agggaggacc aggctttca ggagttgggt 290

<210> 5381  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560856H1

<400> 5381

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gaaggttatc atcactgctc cagcaaaggg tgctgatatt ccaacttatg ttgtcggagt 120  
aaatgaaggg gactacactc atgagatctc aacattataa gcaacgcttc ctgcaccaca 180  
aactgtcttg ctccctttgt gaagatcctg gatgcagagt ttgaaattgt gaaggaaacc 240  
atgacaacca cgcatcccta cactggagac cagaggctt tggatgcttc aca 293

<210> 5382  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560857H1

<400> 5382

ctgaggacct tgcaacaccg gcgtccct cttcctctc ctctctgc ctttacctt 60  
gatttaggt tnttcattat ttggcggcg 120  
tcatgcata 180  
tatctcaa 240  
atgcata 292

<210> 5383  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560858H1

<400> 5383

acaaaacacg tgacccctt cacagaacan aaccnccatt tcttgcttca ttccctcntta 60  
ctttaacatg caaaacttagc atgtaacgta agtnaacag taaagtanc ttccgttccc 120  
gttgtgactg atggcctcg 180  
caccggtttg aagttggaat tggagttcg 240  
gcagctgtga acggatcttc ttgcggaaat gttccctgc tactgaagga ggaa 294

<210> 5384  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560859H1

<400> 5384

aacctaggaa gttggaagtc atggcagcaa cattgatggc ancaacaaca agttctggta 60  
ctcttaaagc aactcctttt cttggccaa ggcaagggn 120  
gatgttgc 180  
acagagtga 240  
tccctggga ttatggatgg 292

<210> 5385  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560862H1

<400> 5385

gaagaagtga gggcaagaac tttgcagcat accagcatga gcatgaagct cttccagctc 60  
ttctccctac tcccattctt cctnctactt ctacacaata naagaagnan aangcccatt 120  
gcaactgaca cacccactgg accccttnac tcancaanaa atcacnctcg tcaaaaaccat 180  
agtccctaaaa aagtacccca agaccagcna accgcgtctt cttccactac gtcggnctcg 240  
ncgatcctga caaggccgcc gncctcaaat ggctctctcc ggngcccgga cgccgngcaa 300

<210> 5386  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560863H1

<400> 5386

ggggaggtcc ttcccgggat gtnaccggtt ttttctcctt antattgttg gtgncccca 60  
ggggtttcta cctgtanctt ccattgnngc gttacgcaa ttccccaaact catctattga 120  
aacattgcct tttccctcag gtgcntctt ntnccaatc ctctatcggc taacttgtta 180  
gatccagtagtac atcctcttag tacttccatg gactttccctc cttttccct gatccactgg 240  
tgagaatgtc cttgccatct cagcagattc ccactntcnn accattaatg tgtgat 296

<210> 5387  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560864H1

<400> 5387

gtagaggatc agtgaggatg tggcaatggt ttgtgcaatc tcgtcatcac cgttctcaac 60  
ttctctcggt tcggcgatc gtcgtacgca atgcgnccgc cgtctccgtg caagcngcgt 120

gccgttaaac ccttaacggc acttccagcg cggggcggag gcagttgctg tttttctga 180  
cggcgacgac ggcgttgacg gcgaggaaag cggcgtccgt ggcgaggan attcccttgt 240  
tcgggatacg gaagagtctg aagaagggtgg aggangaagc ggaggagatt 290

<210> 5388  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560865H1

<400> 5388

atcctaagag cagacacaag ggaaagcttg agacagagag tttgctacaa gcaagggtg 60  
ttaattggac atctataagg ccagtttaca tctatggacc cttgaactac aaccctgtt 120  
aagagtggtt cttccataga ttgaaagcgg acgcccatt cctatccccg gtcaggaat 180  
acagataacc caacttggtc atgttaagga tttggcaaaa gcttttatcc aggttcttgg 240  
taatgagaag gccagcaagg aagtattcaa catctcggga gataagtatg tca 293

<210> 5389  
<211> 249  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560867H1

<400> 5389

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cgtctanatc gccaagctcg ccgaacaggc cgagcgatac gaaganatgg ggnatcaatg 120  
aagaacgttg cgaatctcga cgttgaactg actgtggagg agcggaaattt actttctgtt 180  
gggtacaaga atgtgattgg tgctcggaga catcgtggag gatcctgtct tccatgagca 240  
aaaggaaga 249

<210> 5390  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560873H1

<400> 5390

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aggcaccata atattgaagg ttccagaagt tccaatgatg tccttctaaa aaatctctac 180  
ttgtcatgtg atccatacat gcgactcctc atggccaagg accgttctt cggagatggc 240  
tccttcaccc ttgcctctcc attgaaagga tatggtgtt ctcaagtgct gg 292

<210> 5391  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560874H1

<400> 5391

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atttggttgt gcagcatgac gtggatgtgg tgtgttgaag aaagtggtgt tggctgaggg 180  
ancagcggtt accgtcaaag gtgcaagatc cgtagtctt cggcaacctc ttgattccct 240  
cttcccgtta aaccgaacgg agaatggttt gctaacggtc ttttaact 288

<210> 5392  
<211> 261  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560875H1

<400> 5392

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aganacagtt acgtggcaat gggcaaggtg aacgcaagag cttttagagaga atatacgatt 120  
agatgtgtac aatgatcttgc gagatcctga tagcagcgac gactcaagag acccgtttt 180  
ggtggcaatc aacatccata cccaaaggcgt tgnagaacag gaaggcctcg ttgcgacaaa 240  
gatccttatac ggagaaaaga a 261

<210> 5393  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560879H1

<400> 5393

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gaaggaangt gctgaaaaga gaagagagag acaacagcaa gagcaagagc tggctaagca 120  
tattgcagag gaggatgacg atgattttg anattgtctt atttcaccct atgaattgct 180  
atgaggatac cttcgttcc aacctttgct catctttcc ttttgaagaa tttccattat 240  
tatttccttt tcaaaaggtg aattttcat ttcttaagtgg aagatctctg aaag 294

<210> 5394  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560880H1

<400> 5394

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ccgccacgca cgctgagcac tgcttgccg gagactctca cgagaatccg gtgccncaag 120  
cctctctctg tccgatgctc tggcgattcc cctccggctc tgtggttcg gagttcgatc 180  
cgaagggtgtt tcgtaagaac cttactcgga gtaagaatta taaccgcaaa ggatttgggt 240  
acaaggaaga gaccctccaa tcatgaatcg cgagtacacc atgatatcat aag 293

<210> 5395  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560881H1

<400> 5395

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tcgggtggnc ctccctcc tccagngtgg ttatacggtc catgccaccg tccaagagca 120  
tcaaggatga aaatgagacg aaacatttga ggaaatggaa ggagcaaaga gtcgtctcca 180

ttntttgna atggatctc ttgacatcg a ctccattgcc gtcgcataa aagggttgc 240  
ccggcgtaat ccacctcgnc atgtcctaac atcatcggtc tggcagaaga tcc 293

<210> 5396  
<211> 136  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560884H1

<400> 5396

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atcgtaacaa caataa 136

<210> 5397  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560885H1

<400> 5397

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tattnaaaaa ccacgaggna gcccagccct gagctttgc ttcctcaccn ggtttngctc 180  
gatgacaccc tcttgnttat tggctggga acatctgtcc naaattgctt caattagnac 240  
aaatcaccan aaagcagcca atgggtcatt caggcaattc ctggc 287

<210> 5398  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560889H1

<400> 5398

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cctcaagtcc atggctggct tccccacagg aagacccaaca atgacattac ctccattgct 180  
agcaacggtg gaagagtgc a atgcatgcag gtgtggccac cagttggcaa gaagaagttt 240  
gagactcnnn cctacacctgccc agaccttgat gatgcacaat tggcaaagg 289

<210> 5399  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560891H1  
<400> 5399

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ccgaggaggc cgccgcagcc cccaaagaaga cgacggaccc atccctgtcg tttacacact 180  
cgacttgcatt tgcgagggat gcgtcaagan gatcaaacgc acatgtcgcc attccaagg 240  
gtggaaaccg ttaaggcagt ctatcgtcga acaaagtgac tgttaccgg 289

<210> 5400  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560894H1  
<400> 5400

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aggctctgaa gaaatggcac atggatgcnn nnnnnnnnnnn nnnnnnnnnnt gtaggaacag 120  
tgacactagg aaagtcgagt cacgaatcat ggatggaagc cccattggta attcttcaac 180  
agtgcactcc tcctctgttc ccacactaca ccgtttcnga actaccggcc actcaacaac 240  
gtacgnggat caagatcatg atcatgatca tgaatatgaa tccg 284

<210> 5401  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560895H1

<400> 5401

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ctctcacaag agactnttcc tctgttgtgc attggaggaa catgacaaaa tggtaatgg 180  
gtcggttctg cttcaganac ccgattcggtt tgggaggttt ggcaagttt ganggaagta 240  
tgtnccttag actctgangc atgctctctc tcagnttgag gctgccttn att 293

<210> 5402  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560901H1

<400> 5402

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atgcctggaa ctctggat caatcttctc attcaaaaatg atgttcgcct tgaaatatgt 180  
accgagaaga aaacgatttt gtcagttgaa gacatcattt ctttgattgg tgataagtgc 240  
gatggagttt ttggacagtt gactgaagac tgggagaag agttgttctc tgct 294

<210> 5403  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560903H1

<400> 5403

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atttgagaac tcaggtgaac ttggacccta catcgtttag tacgggtcag attacagaat 180  
aataagcatc ttcaactctc cattccaagt tggtttctac aacaccaccc caaatgcctt 240  
cactcttagct ttgcgtgttag ggctccaacg ctcggagcag ctatcc 288

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<210>      5404
<211>      286
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560905H1

<400>      5404

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acagcagtgac tctgcaa atg ggttggatct atcttgcntg cccagcgatt tcctcnntgg 120
cattgtttct tcctcttacc agtatgaagg agcttacaag agtgacggca aaggactgag 180
caactggat aactacactc acggaccagg tagaagtgt a ataatggatg gaagcaatgg 240
ggatatcgcg attgatcatt atcatcgcta cctggaggat atagat 286
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<210>      5405
<211>      280
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560906H1

<400>      5405

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tttgtncttc cattcgccat ggctgtngat ctccctcac atcacntctc nngccgaaac 120
ccacccttcc attcgacgcc gcccttgat ntcggcgttt acctcnaaac gacggacatg 180
ttgccaggat ttcaagctc gaattttgat tggaggaatc ttattgtgaa cgagaatgtg 240
aatgcagatg attctatgca ggatgcagag aacagaaaact 280
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<210> 5406  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560907H1  
  
<400> 5406  
  
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gggtcgcgcg tgattctgcg ccgggtgctgg aggagttcat tccgttgaag aaggagcgtg 120  
qtqatcaqaq cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncAACGaat 180

gccgggataa gaggaattgg atgagttctg ttcagctctg gaataacaac actaccactg 240  
ccaccactaa taataacaac ctttctgatc gcaaacaact acttcaca 288

<210> 5407  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560908H1

<400> 5407

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tggttgggtt gaatcccng gttgaagcgt tgcagacatc acggctatnc ctaagagtgt 120  
ctcgctccct cattcatgtc cgatctgtac gacggangac ggtagttgc gtaactgccg 180  
ttaacccttc gccgcacggt gggcgtggtg cttgccttc tgaagggttgt agcccttcag 240  
acttgctctt ctcgctgggt ggtggtnct tctagtnct 280

<210> 5408  
<211> 248  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560909H1

<400> 5408

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tcangacagc atctccgctt ctncaacctc cgcntctgat tccgtcttca atcacctcgt 120  
nnnnnctcnc naanatccta tnctcgggt aactnnagct tataacaaag atccaagtn 180  
agttaagctc aacttgggag ttggtgctta ccgaactgag gaaggaaaac ctcttgttt 240  
gaatgttag 248

<210> 5409  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560910H1

<400> 5409

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agctcactga atcgangcnc ttcattttga ttttcttcct cgtcactgcg catcatgtac 120  
agagttgcag cttcatcatt cagaaggcat ctcaagggcc atggaggtaa cttgggatcc 180  
attaggttt caacttcggc cgcgtagtg caaggacttc atctggtgt ttgttttagct 240  
ggcttactgg agagcgttct agtgctttc ctccctttga catacc 286

<210> 5410  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560911H1  
<400> 5410

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tcacgttcca aggtggacaa tgtgnnttcct aatgtgatgt caatgcattc agttagcctg 120  
anggttgagg caatttgct taaatctaaa tcctctgaag aacttggcg atacactgag 180  
gctgcaaagg agtgcagaat tgggtggat acagttgagt ctgctttcc taatggaatg 240  
cctgagggtta ttggtaaga ttgttaagttt caagaaatgt tccacga 287

<210> 5411  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560912H1  
<400> 5411

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ttaagcgcan nngttttagg gctttgccgt tgcggtgttg gtttgctttt taaatgtcaa 120  
ctttatattt gtgttcaaaa 140

<210> 5412  
<211> 168  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560913H1

<400> 5412  
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caaactaanc cccaaaagct tctttcgtaa aaangaacca tctttagtct cacgctccga 120  
cccgccctctt ttccggatccg gatcctcttc cgttgactct tccacaca 168

<210> 5413  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560914H1

<400> 5413  
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tgtcaagatg tacacatcaa ggaagaaaat ccacaaggat aaggatgctg agccaactga 120  
atttgaggaa tcagtcggac aggcatgtt tgatctggnc aataccaaca atgagctgaa 180  
aagtgtatctg aaagatttat acataaaactc agctgtccaa attgtatgttt ctgggaaccg 240  
caaggctgtg gttatccatg tcccctacag attaaggaaa ggattccgga ag 292

<210> 5414  
<211> 221  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560915H1

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ACGTGGTCCC AGACGCGCCG CGATGCCTC AGCTGGCCT CGCCCTCTC CTCCCTTGGT 180  
ATCCGCCGCG GCAGNTTCGT CTCCGTCGTG GNCCCCAACAA T 221

<210> 5415  
<211> 184  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560916H1

<400> 5415

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cggtcaaact tacggcacag accaatttgtt ataggagtac agggtcttgt ctgataacttc 180  
atac 184

<210> 5416  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560917H1

<400> 5416

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attgcttgaa aatgtgcaga tactggcac tggatgtct gcaaagatgt gggaaagtaac 120  
tgtggagcat gctcgaacctt gtgtacttga tacaacgagg cacgtgtact tcccttctaa 180  
ttctcaagaa cctggtgtgg tcttcaatgc tgtggacaa gtgacaggac tgctttctga 240  
atgcgattat gtcacagtag ataagctgac tgaaactgaa aaggcatt 288

<210> 5417  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560918H1

<400> 5417

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ttctcgaaat attttgaatc cagggaaatca tgcacgctcc agttctagtt ctcaaggact 120  
ctttgaaacg agagtctgga tctaaaggccc gctatgctat tattcaggcg gcaaaggctg 180  
ttgctgatgt agtccgaaca acattggac ctaggtccat gctaaanatg cttcttgatg 240  
ctcaaggagg aattgtgggtt accaatgatg ggaatgct 278

<210> 5418  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560919H1

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tancagtatt taccaatagt ggggagtcta gtagtgactc acttgatgtt gctgaaattc 180  
ttagaaaacct aagtagtaag tttaattttc cccatgaaaaa aattggngaa gcaaggaaaa 240  
ataagtttg tggtgctcg atttcaaaga ctaagtctat aagtg 285

<210> 5419  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560921H1

<400> 5419

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taatattttaga gttcttctc tttcattcat cttggtaat ggcttgtgca ttgcaagcaa 180  
ccttagcagn caacacccat gcctttctt ccaggagatt ctcccttgaag cacccaaaaga 240  
acagtaagag aaggttttct ttgttcactg ttagagctga ttctg 285

<210> 5420  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560922H1

<400> 5420

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cgcgtgaggt ggcagcggtg atgaaataca aaggcttggaa gcttcaagaa gccgtggatt 120  
ttgtgatcaa gcaccgtctc gatgaaggga tggctggctt cattgtgtg tccaaacgctg 180  
ggaaagtggc ttatggtttc aattgcaatg gcatgttttag gggctgtgcc actgaaaatg 240

gcttcatgga ggtcgaaatc tggaaatagc ttcatttattt tcct

284

<210> 5421

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560923H1

<400> 5421

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atagcttga ttgtngaaga ngcattggctt gtntttctcn accttgcaat actgggtcat 120

ttgctacccc aactntgact cngagaagat atttgggtgt gtgtggaggt ntgtgcacta 180

ggtcattcgt cgttanttct ctagggtgta accngtgctn caaatttcnn natgagtng 240

tgtggAACAN gnagctaggg nattntggta gtat 274

<210> 5422

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560924H1

<400> 5422

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aaccggcctt cntccgttct ctccctcttt ctgccgtcca atcactccgc aactnctgcg 120

attctcccgaa aactccggaa ccttccggcg ccgttgattt cccgccccaaa caagctcgcg 180

gtcacagCCA ttcaggtttc ggatctatcc gagaattncg acgattctgt cctcgaagac 240

gttccgcacc tcatngaacn ncantccaa tttgccggtg 280

<210> 5423

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560925H1

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caggaacata tcatacagaac acgtcatggt tctgttatctg ttgctgtata tggagaccag 120  
gataagccag ctctaattcac atatccggat ttggctttaa attatgtctc ctgcttcag 180  
gggttattat tttgtcccga ggcataattac cttctgctcc acaatttctg catttatcat 240  
attagtccac ctgggcatga gttgggagnc gctgcaatcg atcaa 285

<210> 5424  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560926H1

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gcacccactt ttgtgaacgg taggaggctt cttctgggt gcgtggtgca agatatgccc 180  
aatggttatt ccaaggtgac atgggtggag catgcagaat acgaagaaag ccaagttcac 240  
cagctctata ggccttgtt gagctcaggc atggggtttg gtgc 284

<210> 5425  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560927H1

<400> 5425  
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atggcacatt cagttgtgg ttcgagaagg tccactgcac ttgtgatttc atccttgct 180  
ttcggcttcc tttcctatc tccgccagct gaggccagac gcaacaagaa ggccatcccc 240  
gaagaccaat acattactag ccctgatgga ttgaaatact atgatt 286

<210> 5426  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560929H1

<400> 5426

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cccaanctcc caaccactac tataaacacc acaaactcct ctcctcttt ttcttgatc 120  
cacatctcca acggaagaaa gaacagccan gaaatcagag aaaaaaaaaat gccaccttt 180  
gccggatccg aaccaggttgg attccctaag ccagattccg acatagttc cattgacgtt 240  
ggtgtggcaac tggccaaac cacgaaacag acactaacct c 281

<210> 5427

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560931H1

<400> 5427

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ggcggaggc gcaccggagg agaattgctc cgccaaagccc accaagcagg gcgagggcct 180  
ccgcccactac tatttcacaca acatccacga ncatcagctc cttctccgtc aaaagacgca 240  
taacctcaac cgtcttgagg ctcagagaaa cgagctaat tccagggtga ggatg 295

<210> 5428

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560933H1

<400> 5428

cgatcaccat gttgcgacaa ggttagttt aagaaaggac catggactcc tgaggaagat 60  
cagaagctct tagcttatat tgaagaacat ggccatggaa gctggcgtgc cttgccanca 120  
aaagctggac ttccagagggtg tggcaagagt tgcagactaa gatggaccaa ttatctcagg 180  
cctgacatta agagggaaa gttcagtttgc caagaagaac aaaccatcat tcaactccat 240  
gccctcttag gaaacaggtg gtcggcaata gccacacact t 281

<210> 5429  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560934H1

<400> 5429

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cggtctactct ctctgttagcc aaaccagccc ttcaaggcaaa tggaaaggc ttctctgaat 120  
tctctggcct ccgaagctca tcaggcttcc ttcccttttc tagaaaatct tcagaggatt 180  
tccattctgt cattgccttc cagacctatg cagttggaag cagtggagga tatcagaagg 240  
gtgtgacaga agcaaaactg aaggttgcca tncagggttt ggaa 284

<210> 5430  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560935H1

<400> 5430

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gtattaaagg tggacttaaa taatgataga atcaagaaaa aagctatgaa gncagcatct 120  
ggccttcag gggttgaatc gattctgtt gacgttaagg acatgaaact agtcttattg 180  
ggtgagattg atccagttag tgcaagtgtca aagctacgaa agtgggtgtca cactgaacta 240  
attcatttg gaccagcaaa agaggagaag gagaaggacc ccg 283

<210> 5431  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560938H1

<400> 5431

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ggtgcccaagg cattagcgac ctctttgcaa aatctcgatt tgnatcctcc atccaacgtc 120

aaatccaagt cctccatttc aatcacccac cctcaatttc ccggattact gccttatgaag 180  
acaaaagcntc cgagtttggc cagcctttgc attggagttc ttggaagaca tttggaggat 240  
attattgcag atttgagtga aattgctatc aacttgccag ctg 283

<210> 5432  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560939H1

<400> 5432

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gtgaggaatc acaatctcca ccggcgaaac ctgttaactgt tggcgacgct caacactcgc 120  
actacgccga tagtgatgga gagtgctttt gcaagcnct ctgcgattac tgaccagagg 180  
cagaagatag agcagtataa gcaaataactt gctgctgtca tttcatctaa tgacattgtt 240  
caggcttagga nattcataga tcacatgtta tcagatgtatg ttc 283

<210> 5433  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560940H1

<400> 5433

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agcttaggaaa tgagcaattt tacatggaga cttcgatttc ggtgccaagg ttgaacacgg 120  
actcgagcag ttcggagcac gtggttcgc ccgatgtcac gtgcgagagg gaggtgcaga 180  
gcgaccccaa gtggAACGAT gatctggacc taaagctaga aaacgcgttt gatTTTcagt 240  
ttaattactt ggacgataat aacctttccg tggatgatta ccttt 285

<210> 5434  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560942H1

<400> 5434

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tgancatgga agcaggaggg aattgatatt caggtcgaag cttccggata tctacatccc 120  
caaananatg cccnnncact cttaactgnnt cgngaatttg agagagtgtg gttcacgccc 180  
ctgcctgatc aatgccccca cgggagacgt ctacagctac cacgaggtgg acancaccgc 240  
caganaggtg gcganggggc tgangnaaga gggcgtggaa cagc 284

<210> 5435

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560943H1

<400> 5435

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gtgagctcgc cgccagcncc ngttccggtg agttctccac cagcgcctgt tccggtgagc 120  
ctccccctgc actggcacccg acaactccgg cacccgtggc agcacccagc gctgagggttc 180  
ccgctcccgcc tcccnnnnnn nnnnnnnnnn nnnnnnnnnng taagaagcac actgcaccag 240  
caccqtcgccc qqcattqctt ggccctcccg ctcctccgggt agga 284

<210> 5436

<211> 291

<212> nucleic acid

Glycine max

<223> Clone ID: 700560946H1

<400> 5436

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tgtcaagatg tacacntcaa ggaagaaaaat ccacaaggat aaggatnctg agccnactga 120  
atttgaggaa tcagtcggac aggcattgtt tgatctggnc aataccaaca atgagctgaa 180  
aagtgtatctg aaagatttat acataaaactc agctgtccaa attgtatgttt ctgggaaccg 240  
caaqqtatq qttatccatq tcccctacag attaaggaaa ggattccgga a 291

<210> 5437  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560947H1

<400> 5437

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gcaacggatt cttctaatgg taatggacat caccaaacaa caacaaagcc ncctcctttg 120  
ccgtctcccc tgcgctttc caaattttt cagtccaaca tgagaatctt ggtaactgga 180  
ggagctggat tcattgggtc tcacttagtt gacagattga tggaaaatga aaaaaatgag 240  
gtaattttgc tgacaactac ttcaactggat ccaaggacaa cctcaaaaaa t 291

<210> 5438  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560948H1

<400> 5438

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tgcacaagct cttgtatcat catcttcct taccttctca gcggaggctg caagacaaag 120  
tcttggacca agatcaactcc aatctccatt tggcttctcc agaaaagcct cctttcttgt 180  
caaggcagct gctacccccc ctgtcagnca aggntcagac agacctttgt ggtttgcattc 240  
aaagcaaagt ctttcttact tggatggcag cttccgggt gactatggat tt 292

<210> 5439  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560949H1

<400> 5439

cgcacacgcc acgcacaaca caatctcagc tccagccttc ttcttctttt ctttttttc 60  
tctcccttcc gcacccaaga gagagaaaaga cgctgctaga gaagaagaat atggcgggtg 120  
ctgctcccaa acaattgttc ggattcggag ttgtggcgat gctcgccact ctcattcttg 180

ctctctttat gcccggcgt gttcaggctc aatcngcatc ccctgcacct gcanctacta 240  
gcgacgggac ctcccttgcat caagggatag catatgtgtt gatg 284

<210> 5440  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560950H1

<400> 5440

atggantcta cattgctcca gcttttatgg ncaagcttgt ngtncncatn ttccaagaac 60  
ttcatgaccc tgcccaacat caaggtncct ctcatncttg gtatctgggg aggcaaggga 120  
nnangaaaat ctttccaatg tgancttgc tttgccaaga tggaatcaa ccccatcatg 180  
atgagtgctg gagagttgga aantggaaat gcaggganagc cagcaaaact gntcaagcag 240  
agataccgtg aagctgcaga catgatcaag natggaaaga tgt 283

<210> 5441  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560953H1

<400> 5441

ctttccaaga ttgatatctg gaaagtagta attagcacct ccattctatt antaattaat 60  
tatgccaagg aagtagtctt gcattcatgt ccaagtgaaa gggtgttctt gtctacaaca 120  
cacctaagcc aagccactgc agctacctat accatttggg aagattttagt aatncgggaa 180  
tttgttaaat gttgtgtcat cattagttgt ttctgtaaaa gtcaataaaa tttctaagtc 240  
gtatataaga catatggtnt ttcaacgata na 272

<210> 5442  
<211> 254  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560957H1

<400> 5442

ggaagaacna ngttatngag atggtttta cgaggagtga tgtnctgtt gtcggatnt 60  
ggggatng tngtccggg aaaaccactc ttgctagaga agtctgcaga gatgaccaag 120  
tgagatgtta tttcaaggag aggatcttgt tttgactgt gtcacagtcc ccgaatctgg 180  
agcagotgan agcgaggatc tggggAACGT catggcaac caaggTTGA atggcantat 240  
gcggntccac aaac 254

<210> 5443  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560958H1  
<400> 5443

gggagaggan aaagagnagc ntaagaatga naccgagaag aagcnccagg aggccgccc 60  
agcccccaag aaagangacg gacccatccc tgtcgtnaac aaactcgact tgcattccga 120  
ggatgcgtc aagaagatca aacgcacatg tcgccacttc caaggtgtgg aaaccgttaa 180  
ggcagatcta tcgtcgaaca aagtgactgt taccggcaaa ttggatgccg agaagctg 240  
agataagatc gccgagagaa ccaagaanaa gttgacatc atct 284

<210> 5444  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560959H1  
<400> 5444

anaaacnttc cttctcttc tcancnccac annccatct nacncacccc tcgcattcaa 60  
caatgtcctc tgaccatnac cctccaaacct tctccaancc cgcnccctc ngcnccaaan 120  
taagcncaaa gctaagggtcc gnccaccaa ccaccatcgt ctgnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnngtgtcc tccgacctga aggccgttctc cgccgcgtg gnnctctcnt 240  
ccatcctcct ctccgnccct ctncnccnng gcccganat ctcggggc 288

<210> 5445  
<211> 275

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560961H1

<400> 5445

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ngctctgaag anatggnaca tggatgcnnn nnnnnnnnnn nnnnnnnntg tnggaacagt 120  
gacacttagga aagtgcagtg cacgcntcnt ggatggaagc cccattggca atttcnac 180  
agtgcactcc tccnctgtgc ccacactaca ccgtngcaaa actaccggcc antcancaac 240  
ntacgaagat cangatcatg atcatganca tgact 275

<210> 5446  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560963H1

<400> 5446

tgtttttca attcagattc agnaggagac gntggnagaa cccgtgaagg aacagccccct 60  
ctctgctggg aactctgcgc gacccaagct tcagagatac gcgcctcggt cgtcctctaa 120  
atccaaggaa aacaagcaag acaccgcacc cgatctctcc atttcttctg aatctaagag 180  
ggggtaagt actccacacg taagcagaag aagtaggtgg tcttgatttc tctggcaaca 240  
aggataagtc tactagtgtc aaaccaccaa gaaggctctc naatcctgtg a 291

<210> 5447  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560967H1

<400> 5447

atggtttctc agaagaagcc tttcactgta gccacgctct tcttcctggc attgttcctt 60  
annnnnnnnn nnnnnnnnnn nnnnnnnnn accagaacaa ttatntcanc cactccctcc 120  
atccactcag atctctacnn cntcctcnaa cctntttctc ngcctccgnn cccacagcca 180  
cagcaancag actcncctn ctccctcacc agcactgaaa cccaacctga gcctgtnggt 240

gacattgacg atgccacgga caatgtcacc gatgccg

277

<210> 5448  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560970H1

<400> 5448

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gaaggcctct ttatcacaag tcctcaactct ctaccacctc ntttgcncaa cactgagagg 120  
caattcagcc gttgagtgca acgaccgagg gcattctta caccgaatct ngagtctccg 180  
ttganctctc anacgttgtg aagaaccctc atcttcaaga gatcaacgaa cttttcccgt 240  
ntgatcccta caaccctgcn aggganacac tggaaggng 280

<210> 5449  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560971H1

<400> 5449

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gatcgactgt ggatcaagca acgaacattc caacatttga agaaatttagc acactgatta 120  
acccttaaac tattggcaat ttaatgtaaa gaaaatcgca aaggctcgac ctttctgtta 180  
tgtggctat gctccgttgg ctacgtaata tgaatactgc aaatgctggc acgtaattat 240  
aatatcaaca gctggtactg cttagtttc ataaacaaa 279

<210> 5450  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560973H1

<400> 5450

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gctgtttcca atncgttgc accaaaaccc attaaccct tttgcagnaa agcaagattg 120  
tgctctctgc aagggtcaac gagtgtaaaa agcagaaaaa gtttggtgct ttgtgtacc 180  
aacatgacta tagcagagga tagttgttg caggtggtgg aggaggaaga gggtcctcct 240  
gatttgctt tgcttgatcc tgaggacant tctaggcctc gtaga 285

<210> 5451  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560974H1

<400> 5451

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ngnttgtncc accggagccn ntggcgctt ggancnntgg gggccctcct cctcncccag 120  
cgtngttata cggtccatgc cancgtccnn ganatcaagg atgaaaatga gacgaaacat 180  
ttggaggann tggaaangagc aaagagtcgt ctccattttt ttgaaatgga tcttcttgc 240  
atcgactcca ttgccgctgc nataaagggt tnctccggc 279

<210> 5452  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560975H1

<400> 5452

gtttgttcc tctaccatcc aattacgctt ctccctgtcc tctacgtaaa taaaaatatg 60  
gctctcatat tccaagccaa taaccccaa aaaccaatgg catcgctaac agcggggttt 120  
caccggccaca acaaccacccg canccattct tcttctgcgt cccaaatcnt aatcttcttc 180  
tgcctctctg ccttctcgg cctcgccatc atcgccaacc tcttccgcgc ctccctctcn 240  
actcantatc tctccntggc accaactggg tgncacaag 279

<210> 5453  
<211> 270  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560976H1

<400> 5453

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gctgcaacat ctggtgctgt gttaaatggg ttgggatctt cttcttgag tggaggaaac 120  
aggagccaaa cccttctggc cactgctatt ggaggcaaannnnnnnnnnnnnnnnnnn 180  
nnnagtctta gaagactcat tgtggtagct gctgctgcac caaagaagtc atggctccct 240  
ggtgtcagag gtgggtggcaa cctcgctgac 270

<210> 5454  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560979H1

<400> 5454

aacaaatcaa agccatggcc acctccaact tctctattgt tctctccgtc tccctagcct 60  
tcttttttgt gctacttacc aaggcacact cgaccgatac cgtttcnttc accttcaaca 120  
agttaaccc agtccaacca aacattatgc tccaaaaaga tgctagtatt tcattcctctg 180  
gggtgttaca actcacccaa gttggcagca acggcgtgcc cacctcgga tctctcggtc 240  
gtgnccctta cgctgccccca atccagattt gggacagcga aaccggcaag g 291

<210> 5455  
<211> 121  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560980H1

<400> 5455

aaanagattt tatacagaaaa tatncgtntt cattcacata gaattcaacc anaataaaatg 60  
tgatannatc taaannagggn gnaaaaattga attttggntn gtttatatt antngttcta 120  
a 121

<210> 5456  
<211> 184

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560981H1

<400> 5456

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tagcggttga tggtaatga atcaccacca ttgcacatat gtgcaaattt tgtgctgagc 120  
caaatgtatg tatgtacagt atcaaggcctt gaaaatttac ttaaaatttgtt agcacttctt 180  
ctcc 184

<210> 5457  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560982H1

<400> 5457

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aggcgtaatc gcgcgtgagaa agatcacgag gaacaaagag gatgcttaggg ttgcgtctg 120  
cacgccccgg gtgttactag cgctgcgtgg tttgatcgcc tcgcgatacg gcgttgcaca 180  
ggtcaacgcg gtggcgtctc tggtaacct ttgcgttagag aagcagaaca aggtgaagat 240  
tgtaggtca gggttgttc cgttcttgat tgatgttt 278

<210> 5458  
<211> 167  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560985H1

<400> 5458

ctaactaagc ttcaactgttt ctcattatca tcatacttcct ctttaattca atttnagaac 60  
ctttcctgtt cttttttca cttcccaatt cantgaacac ccaaacccca atactcacgt 120  
gcttgcacg tggcccttga aattaccctt tttttcttct tcttcca 167

<210> 5459  
<211> 279

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560987H1

<400> 5459

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tttttggtgc tacttaccaa ggcacactcg accgataccg tttctttcac cttcaacaag 120  
ttcaacccag tccaacccaaa cattatgcnc caaaaagatg ctgttatttc atcctctggg 180  
gtgttacaac tcacccaaagt tggcagcaac ggcgtgccc a ctcgggatc tctcggtcgt 240  
gccctttacg ctgccccat ccagattgg gacagcgat 279

<210> 5460  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560988H1

<400> 5460

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gatcgactgt ggatcaagca acgaacattc caacatttga agaaatttagc acactgatta 120  
acccctaaac tattggcaat ttaatgtaaa gaaaatcgca aaggctcgac ctttctgtta 180  
tgtggctat gctccgttgg ctacgtaata tgaataactgc aaatgctggc acgttaattat 240  
aatatcaaca gctggtaactg cttagtttc ataaac 276

<210> 5461  
<211> 98  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560990H1

<400> 5461

tggaaagcctt gttgtgagta agagaaaagg cttccgtcac cgagcacacc aacttgatac 60  
ctctgattct ttctttgctt agaattccac acaacata 98

<210> 5462  
<211> 279

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560991H1

<400> 5462

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gcatacgaaaaatggatccaaatccctgaa gaagggttagc atcaacaaggc agttctgaaa 120  
atggagatca ccaatgtcag tgagtatgag gctattgcaa agcagaagtt gccaaagatg 180  
gcgtttgact actacgcattc tggtgcagag gaccagtggc ctctgcaaga gaacagaaaat 240  
gcctttcca gaattttgtt tcggccagta ttcttattg 279

<210> 5463  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560993H1

<400> 5463

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gaaatcacct gaaccaccccg aagaagcatc acagtcacga gactcatcgc gagataacca 120  
gacctggata actgcacaaa acattctnnnc nganaaaactg atcacagagg actgtttcgc 180  
atgnnaatta caagctggtt ccaaagagga agaagcattt agatacgttg gtggggttga 240  
caaaagctac tcaaaggatg accatcaagg gcatgtggca cc 282

<210> 5464  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560995H1

<400> 5464

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ggggcagttt caaaccggaa aaggccattt gctgccattt ttgggtggttc caaagtctca 120  
tctaaaattt gaggatgtt gtcacttttta gaaaaagttt acatcccttct tcttgggtgg 180  
ggaatgtatct tcacatTTTaaaggcacaat ggtctttcag tgggttcattt ctttgttagaa 240

gaagataagt tggatcttgc tacatcacta cttgcaaaag ccaag

285

<210> 5465

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561001H1

<400> 5465

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agttccactc cttccctta tncntttcc ttctcttggc cttcaacaca aaacccctcc 120  
nagcagcaga accagagcca gtggttgata agcaaggaa cccttggag ccaggatgt 180  
ggtactacgt gtggccactt tgggctgatg aaggaggcct cacactaggc caaacaagga 240  
acaagacatg cctcttatg ttatccgtga cccttca 277

<210> 5466

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561003H1

<400> 5466

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ctaattctgtc cttccggatc cccaaattgc cccaaattga gaacacgcca tggcggcaac 120  
gttcgattcg gttcggtccc tcgcacttct cactcttgc tttgtgtgt a cgtcgcaac 180  
ttcgatgcgg ttcgagctc aatcggtaa caccaagtgc atttcagaag acattaagac 240  
caacgcgatg agtgtggaa agtacagtgt tgtaatcc 279

<210> 5467

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561004H1

<400> 5467

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caacacttct gtttatcta caatgtacaa tgaaggccag caataacaact aaggcagtgt 180  
cacgtaatcg aaactcgccc gcctcttgt ttggcaaaat ggcacaagggt ttacgttcat 240  
cttcaatggg cttggggatt tcaagtggct acagtgga 278

<210> 5468  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561005H1

<400> 5468

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gctntcttc gccacccttc tcctcttctc ctcttctct cccaccttc gcgaccacct 120  
cgccgacgac gaggancctc agcttcctcg acgagccctc cgccgcgcgg gagcacgacc 180  
accactacgg cgccgatgac tccaatttcg gnnaacttga ggacttcgag gaggacgacg 240  
cggaggcgta caagcagccc gaggtggacg agaaggac 278

<210> 5469  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561006H1

<400> 5469

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gtattacaaa aatgtggat ccagttgcct atgccttgg gtttatcgac tgtgataata 120  
tcagtgcctc ctgcattgtc accatatttgc cattgtttgc cacaaagacc gaggcttccc 180  
ttttgcataat gctgaagggt tcaccggatg tttatctgag tggccccatc cgaaagtaca 240  
tcatggacag agggggcagg ttccatctta ggtgggg 277

<210> 5470  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561007H1

<400> 5470

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aagaaaatgg taatatgaat tttcacgggt ctgaaaatgc tggaaacaag caacatcaa 120  
acattgcttc aaatggcaac tctagcagta gtggaactaa catggatggt gagaaaaacct 180  
ttagcatttt gtttcgggga agaagaaatc gaaaggcagac tctgagaatg ccaataagtt 240  
tgcttactcg acctaattggc tcacagtcat ttaaggt 277

<210> 5471  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561008H1

<400> 5471

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accttcttgg tggtggcga gaacaggctg ggccccatga catcottona tgcgctgagc 180  
aggttccctt caacccatct tccaaacctg cttcatcatc ttaagattat tatattttt 240  
agcatataat attgttgtgc caatccctt gaaag 275

<210> 5472  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561009H1

<400> 5472

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gaggtcattc aaatacgcct gggtgcttga caagcttaag gctgagcgtg agagaggaat 180  
taccattgttattt ggaagtttga gaccaccaaa tactactgca ctgttatttga 240  
tgctccagga catcgtgatt tcatcaagaa catg 274

<210> 5473  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561011H1

<400> 5473

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catgaggaag accgtcacca agcaggtctc ctcaggaagc ccatggtagc gcccagaccg 180  
agtcaagtac ttgggcccatt tctctggcga gccccgtcc tacctaaccg gtgagttccc 240  
aggcgactac ggctgggaca ctgctggct ttc 273

<210> 5474  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561012H1

<400> 5474

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agtactgcta tctcagcctt cccatctctc ctttcttctt caaaatccag atttgccacc 120  
gcagttcctc tttcttagctt tgggtgtcacc aatgcctctt cttctcgctt ttctatgagt 180  
gctgactgga tgccaggcca gcctagacct ctttaccttg atggttcagc acctggtagc 240  
tttggattcg acccttctcg tcttggtaa gtac 274

<210> 5475  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561013H1

<400> 5475

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gcaaccatg ctgctttacc ccctgaagtt tactggaagt cggtgcttcc tactacgcca 180  
atgc当地aaag ccatcactga tatccttac tctgattggg tggaagagaa aagcagctca 240  
gtgcatgttg gaggtggagg cgtgaacgtg cata 274

<210> 5476  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561015H1  
  
<400> 5476

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ctacaatttt ggttagcatgg caatgccatg cgtacgatat gttccctctc cgaatgaaca 120  
ctggctatgg tgcccgtact ccggaggtga aatgcgcag ttggaggctt gctgtggaag 180  
cacacaacat ctttggcttt gagaccattc ctgaagagtg cggtgaagca acaaaggaat 240  
acatccatgg cgaacaatat agatcagact caaaaacagt t 281

<210> 5477  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561017H1  
  
<400> 5477

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taatacacgc agtttgttatt gaaaaaaaaaca acaagagtga aagagaagan aanacaggna 120  
tgaataaaaat tgtataacaa agagtttgtt tctcttatgt gaaaatgcgt agaggaggtg 180  
agggagagaa catggcagtg cctcaactaa cttcaagttc gagcacgaga agattgagcc 240  
tgagaacaac gagaccagac ctttcttgc actgtgcaaa tg 282

<210> 5478  
<211> 215  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561018H1

<400> 5478

gaaatggta agggggaaat gtcaattgat gaacatggag aaggcaaaga agagaatatg 60  
gctgcttggc ttgttggaaat gaacactctc aagattcagc ctttcaagct tcctacttg 120  
ggaccatg atgtcagagt tagaatgaag gctgttggta tctgtggag tgatgttcac 180  
tacctcaaga cactgaggtg tgctcacttt atant 215

<210> 5479  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561020H1

<400> 5479

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atgaattcaa aaatttgaag gctaaaccag ggtcagtcgt gtcaatagat attgaaacag 120  
ccacacagtt ggacatttgc cgagtttagat agacaagg aaacccttga gaaaacacct 180  
gaatccaacg aggagtacac gtgtggcaac agtggtggat ctaaacaacg tggtgcccta 240  
ggaccttttgc gtcttttgtt tttggcagat gaggc 276

<210> 5480  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561022H1

<400> 5480

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catagttttg gaaaccaaga attcctgaag aagggttagca tcaacaagca gttctgaaaa 120  
tggagatcac caatgtcagt gatgtgagg ctattgcaaa gcagaagttg ccaaagatgg 180  
cgtttgacta ctacgcattt ggtgcagagg accagtggac tctgcaagag aacagaaatg 240  
ccttnccag aattttgttt cggccacgta ttcttat 277

<210> 5481  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561023H1

<400> 5481

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aacaacccaa tggctccctca aacacaatta caaggaccat gatcatgttc atgttc 116

<210> 5482  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561024H1

<400> 5482

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ttggtagcat ggcaatgcca tgcgtaacga tatgttccct ctccgaatga acactggcta 120  
tggtgcccgt actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacaccaa 180  
catctttggc tttgagacca ttccctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240  
tggcgaacaa tatagatcag actccaaaac agtta 275

<210> 5483  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561025H1

<400> 5483

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atggcttccc ttgcagcatt cactgctgct gcttcccttg gcatgtcaga aatgcttgaa 120  
aaccatca acctcagtg tgccacaagg ccagctccat ctgcctctag ccctgcctcc 180  
ttcaagactg tggctctttt ctccaaaaag aaggctgcac ctccaaaaaa agctgcagct 240  
gctgctcctg ccaatgatga gcttgcac 273

<210> 5484  
<211> 272

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561026H1

<400> 5484

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gattgtgtct ccgattatta tttgaagatt tctgaaaacac cagagtgttt ctgatcatcg 120  
tcgtcgctga tctctgtttc ctccgttaact gtttctgatt gcagaggcga aaaggtttc 180  
cgcatcaaaa tcgaatnttg tttgctccat catcaccatg gtagaatca cgaaactggg 240  
ttttcttctt ctacccagat aagtaaaagg gt 272

<210> 5485

<211> 173

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561027H1

<400> 5485

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ttcggtgcta caattttggt agcatggcaa tgccatgcgt acgatatgtt ccctctccga 120  
atgaacactg gctatggtgc ccgtactccg gaggtgaaat ggcgaagttg gag 173

<210> 5486

<211> 273

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561028H1

<400> 5486

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ccactgttgg agctgtcaac ggagctccac tgagcttgan cagctctgga gctggagctt 120  
cagttccag ttcagccccc tttggcacca gcttgaagaa gtttattgcc tcaagggtcc 180  
ctaacgtcaa gatttcttct ggaagttca naatcggtgc cgccggaaaaa gagattgtatg 240  
aganacaaca gacagacaag gacagatggc ang 273

<210> 5487  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561029H1

<400> 5487

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agtcttggac caagatcact ccaatctccn aatttggctt ctccagaaaa gcctccttc 180  
ttgttaaggc agctgctacc ccccctgtca agcaaggatc agacagacct ttgtggttt 240  
catcanagcn aagtctttct tacttggatg gcagccttc 279

<210> 5488  
<211> 88  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561032H1

<400> 5488

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gttgnccact tggtcagttac tttgatgt 88

<210> 5489  
<211> 175  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561035H1

<400> 5489

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tgactaaaga tcagacacct cncgaagata ttacccctgg cgaactcaat cagccaattc 120  
aggttcctca gttggatgtt cgtaagtgcc ctgaatgttag acagccgcta cctga 175

<210> 5490  
<211> 87  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561039H1

<400> 5490

ctgaancaga gccaatcccg ntgctgtntc cttgttttgc aacacccttc ntgtggatat 60  
ncttttgtta aaggccaatt gnntntt 87

<210> 5491  
<211> 274  
<212> nucleic acid  
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<223> Clone ID: 700561040H1

<400> 5491

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tccactgctg ctgcttcct tggcatgtca ganatgcttg gaaaccccat caacctcagt 120  
gggccaccaa ggccagctcc atctgcctct agccctgcct cttcaagac tgtggctctt 180  
ttctccaaaa agaaggctgc acctccaaaa aaagctgcag ctgctgcctcc tgccaatgat 240  
gnccctgcca agtggtatgg tcctgacaga agga 274

<210> 5492  
<211> 251  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561041H1

<400> 5492

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tggacaaggc caaggtggct gacgctgccc gcgatcttct cgacgcggcg gggaaagtatg 180  
gaaaacttga tgacaaacaa ggcatagggc aatatgttga caaggctgct gattatctgc 240  
ataattacca g 251

<210> 5493  
<211> 86  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561042H1  
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cnacgancna aaacgtgatg ccacnc 86

<210> 5494  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561043H1  
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gtattaaagg tggacttaaa taatgataga atcaaganaa aagctatgaa gacagcatct 120  
ggcctttcag ggggttgaatc gatttctgtt gacgttaagg acatgaaaact agtcttattg 180  
ggtgagattg atccagttag tgcagtgtca aagctacgaa agtggtgtca cactgaacta 240  
atttcatttg gaccagcaaa agaggagaag g 271

<210> 5495  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561045H1  
<400> 5495  
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cnaccatgaa catggtcgat cgtncatcnc tncatggttt tcgcagtttc atcagcttta 120  
gacatgtcaa taatatcaca tgacaacgct catgcggata gggccacgag ggcac 176

<210> 5496  
<211> 177  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561046H1  
<400> 5496

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ncgntcttcc gattctctnt cgtcttggtt tatnanctcg anggagagac ccactcttgg 120  
tggcacgcgg attaagaccc gcaaacgana tattgctgcn ccgctggacc ctgcagt 177

<210> 5497  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561047H1

<400> 5497

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cagaaacaga ggtgttagaga agaaagctaa aaaatatggc ggcagagtca tcactgaggg 120  
tggcgactcc cactcttgc aacctcaatg ggtctcagag acgaccaacc accaccactc 180  
tctctccgct tcgcttcatg gttttcgtc ctcgacnctc ctctcactct ctcacccct 240  
cttcccttcc acactgctng gggncncag aantcantcc gt 282

<210> 5498  
<211> 276  
<212> nucleic acid  
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<223> Clone ID: 700561050H1

<400> 5498

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ttcaccttac aaaaacaact ttggtagtt tctttgagca ggttaattgc tagagatgg 120  
gttgggtgg aggagaagga agggctgcaa caataaccgc cgaaaaggtg gcaaatccat 180  
cacggagttt gtgattccca accacttcag gtgtccaatt tcccttgact tgatgaagga 240  
tcctgtgaca ttgtcaacag ggataaccta tgatag 276

<210> 5499  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561054H1

<400> 5499

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tacaaaagga caccccttag ctggctcaag atctcttcgc aagatgtcga agaaaatatc 180  
tgcaagtttgcgaagaaagg tttgaccccg tctcagatttgcgttatttctt cagagattct 240  
cacggtatttgcgttcaatgcgttactt ggcag 275

<210> 5500  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561055H1

<400> 5500

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agcaattttagtgc tggagttccg tgctggcaaa atgtcttgc aggaaaaaaag 120  
ggttgttccc gatacacggaa aaggacttgt tcgaatttgcg aggggtgagg agggatttgc 180  
acattttcag tggcttgcgc gcacacaatggaa ttttgcgttgcgatgatcaga taatatttcc 240  
caatgaggctt atttttgaga aggttaatca aa 272

<210> 5501  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561056H1

<400> 5501

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ttttccggcc atgtacctcg aaatcgaggt ttttgcggc ctcttccggtaaacttaacc 120  
gggaagtnac tangcngcca atgnggtgcc ctccctntctg cctctttcaa ggttg 175

<210> 5502  
<211> 93  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561057H1

<400> 5502

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<210> 5503

<211> 245

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561058H1

<400> 5503

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gccgtcctcc tccggccatg cctcgccgccc gcctcctcgcc cggccgaggg cagtgattcc 120  
gccggagaag caaaggttgc tccggcgaaa ttttcgaga agtatccggc tcctggtgac 180  
cgattcttc ttcttcacgt ggtacttctt gaacgtgatt ttcaacatcc ttnacaagaa 240  
gatta 245

<210> 5504

<211> 163

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561060H1

<400> 5504

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aattgacatt cattgtgatt actataattt gtttaaacgg tgcatttct tttatatntt 120  
gaaattttgt taactttgtt gttgaaattt tattctaatg aat 163

<210> 5505

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561063H1

<400> 5505

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tagaccaacc tcctttctt tgcttgagc tcgctcgatc ttcttcatt tcatgtctg 120  
tttattna ttttattttat ttaaggcttt taaatgccca acatttgtt cttgatgttt 180  
gagattgatg tattcaattc tgagtgaat cttctttcc gggtgtatga tcaattccac 240  
tgtgagacgc aggncccatt tagttcaatc cttctctgtt g 281

<210> 5506  
<211> 93  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561064H1

<400> 5506

caacagcaca aagcgggtta ctgtctgttn caagcnanca ttctctgctg ctctctttcc 60  
ttagtgccta ccttgaccag aagttannat ggt 93

<210> 5507  
<211> 84  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561065H1

<400> 5507

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ccacggngnt ananacctga cacc 84

<210> 5508  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561067H1

<400> 5508

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ttccatggct ctctcatccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc 120  
cccagaagtg ggaagggtga gcatgaggaa gaccgtcacc aagcaggtct cctcaggaag 180

cccatggta c gccccagacc gagtcaagta ctggggccca ttctctggcg agccccgtc 240  
ctacctaacc ggtgagttcc caggcgacta cggctg 276

<210> 5509  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700561068H1

<400> 5509

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tgcagcatcc actgctgctg cttcccttgg catgtcagan atgcttgaa accccatcaa 120  
cctcagtggt gccacaaggc cagctccatc tgcccttagc cctgcctcct tcaagactgt 180  
ggctctttc tccaaaaaga aggctgcacc tccaaaaaaaaa gctgcagctg ctgctcctgc 240  
caatgatgag cttgccaagt ggtatggtcc tgac 274

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<223> Clone ID: 700561070H1

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tggacctcca acctttgagc agcccaagat gactctggag aagctcttgc tgtatggtaa 180  
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<223> Clone ID: 700561072H1

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<223> Clone ID: 700561073H1

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<223> Clone ID: 700561075H1

<400> 5513

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<223> Clone ID: 700561076H1

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<223> Clone ID: 700561081H1

<400> 5515

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<223> Clone ID: 700561084H1

<400> 5516

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<223> Clone ID: 700561085H1

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<223> Clone ID: 700561087H1

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aaatAGAAAA aatggcccga tcatttatca aaggccaatc ttccggtagaa gagaagggtc 180  
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<223> Clone ID: 700561090H1

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<210> 5521

<211> 285

<212> nucleic acid

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<223> Clone ID: 700561096H1

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cgtcctacct aaccggtgag ttcccaggcg actacggctg ggaca 285